Pioneer *sound.vision.soul*

Plasma Display

PDP-4300

Operating Instructions

Safety Precautions

IMPORTANT

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

H002 En

WARNING: THE APPARATUS IS NOT WATERPROOF, TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE AND DO NOT PUT ANY WATER SOURCE NEAR THIS APPARATUS, SUCH AS VASE, FLOWER POT, COSMETICS CONTAINER AND MEDICINE BOTTLE ETC.

H001AEn

IMPORTANT NOTICE

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

CAUTION: WHEN POSITIONING THIS EQUIPMENT ENSURE THAT THE MAINS PLUG AND SOCKET IS EASILY ACCESSIBLE.

AVERTISSEMENT: EN POSITIONNANT L'EQUIPEMENT, S'ASSURER QUE LA FICHE ET LA PRISE DE RACCORDEMENT DE L'ALIMENTATION SONT FACILEMENT ACCESSIBLES.

The following symbols are found on labels attached to the product. They alert the operators and service personnel of this equipment to any potentially dangerous conditions.

⚠ WARNING

This symbol refers to a hazard or unsafe practice which can result in personal injury or property damage.

⚠ CAUTION

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.

– Increase the separation between the equipment and receiver.

– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

– Consult the dealer or an experienced radio/TV technician for help.

H010 En

Information to User

H011 En

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

[For Canadian model]

This Class B digital apparatus complies with Canadian ICES-003.

[Pour le modèle Canadien]

Cet appareil numérique de la classe B conforme à la norme NMB-003 du Canada.

H009A 2L

WARNING:

Handling the cord on this product or cords associated with accessories sold with the product will expose you to lead, a chemical known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm.
Wash hands after handling.

CAUTION:
This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

H012 En

IMPORTANT SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the product is operated.

RETAIN INSTRUCTIONS — The safety and operating instructions should be retained for future reference.

HEED WARNINGS — All warnings on the product and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

CLEANING — Unplug this product from the wall outlet before cleaning. The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

ATTACHMENTS — Do not use attachments not recommended by the product manufacturer as they may cause hazards.

WATER AND MOISTURE — Do not use this product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

ACCESSORIES — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

CART — A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

VENTILATION — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

POWER SOURCES — This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

LOCATION — The appliance should be installed in a stable location.

NONUSE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

GROUNDING OR POLARIZATION

- If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

OUTDOOR ANTENNA GROUNDING — If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.

LIGHTNING — For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

POWER LINES — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

OVERLOADING — Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

OBJECT AND LIQUID ENTRY — Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

SERVICING — Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE — Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance — this indicates a need for service.

REPLACEMENT PARTS — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

SAFETY CHECK — Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

HEAT — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

WALL OR CEILING MOUNTING — The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

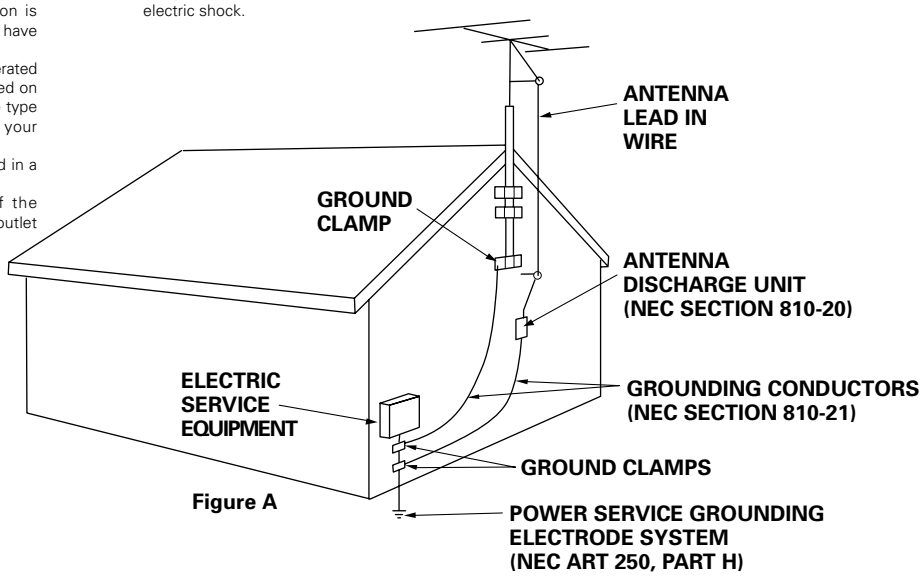
ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
NEC – NATIONAL ELECTRICAL CODE

Figure A

FEDERAL COMMUNICATIONS COMMISSION
DECLARATION OF CONFORMITY

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Product Name: Plasma Display

Model Number: PDP-4300

Product Category: Class B Personal Computers & Peripherals

Responsible Party Name: PIONEER ELECTRONICS [USA] INC. Customer Support Division

Address: P.O. BOX 1760, LONG BEACH, CA., 90801-1760 U.S.A.

Phone: (800)421-1625

URL http://www.Pioneerelectronics.com

Should this product require service in the U.S.A. and you wish to locate the nearest Pioneer Authorized Independent Service Company, or if you wish to purchase replacement parts, operating instructions, service manuals, or accessories, please call the number shown below.

800–421–1404

Please do not ship your product to Pioneer without first calling the Customer Support Division at the above listed number for assistance.

Pioneer Electronics [USA] Inc.
Customer Support Division
P. O. BOX 1760, Long Beach,
CA 90801-1760, U.S.A.

For warranty information please see the Limited Warranty sheet included with your product.

Should this product require service in Canada, please contact a Pioneer Canadian Authorized Dealer to locate the nearest Pioneer Authorized Service Company in Canada.
Alternatively, please contact the Customer Satisfaction Department at the following address:

Pioneer Electronics of Canada, Inc.
Customer Satisfaction Department
300 Allstate Parkway, Markham, Ontario L3R OP2
(905)479-4411
1(877)283-5901

For warranty information please see the Limited Warranty sheet included with your product.

Si ce produit doit être réparé au Canada, veuillez vous adresser à un distributeur autorisé Pioneer du Canada pour obtenir le nom du Centre de Service Autorisé Pioneer le plus près de chez-vous. Vous pouvez aussi contacter le Service à la clientèle de Pioneer:

Pioneer Électroniques du Canada, Inc.
Service à la clientèle
300, Allstate Parkway, Markham, Ontario L3R OP2
(905)479-4411
1(877)283-5901

Pour obtenir des renseignements sur la garantie, veuillez vous reporter au feuillet sur la garantie restreinte qui accompagne le produit.

S018B_2L

Notes on Installation Work:

This product is marketed assuming that it is installed by qualified personnel with enough skill and competence. Always have an installation specialist or your dealer install and set up the product. PIONEER cannot assume liabilities for damage caused by mistake in installation or mounting, misuse, modification or a natural disaster.

Note for Dealers:

After installation, be sure to deliver this manual to the customer and explain to the customer how to handle the product.

Thank you very much for purchasing this PIONEER product.

Before using your Plasma Display, please carefully read the "Safety Precautions" and these "Operating Instructions" so you will know how to operate the Plasma Display properly. Keep this manual in a safe place. You will find it useful in the future.

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How to Use This Manual

This manual is set up to follow the course of actions and operations in the order that would seem most logical for someone setting up this unit.

Once the unit has been taken out of the box, and it has been confirmed that all the parts have been received, it may be beneficial to look over the section "Part Names and Functions" starting on page 4 to become acquainted with the plasma monitor and remote control unit, as their respective buttons and controls will be referred to throughout this manual.

The section "Installation and Connections" starting on page 8 covers all the necessary points regarding installation of the plasma display and connections to a wide variety of components.

The section "Setting Up the System" starting on page 18 covers the necessary on-screen menu settings to establish correct linkage between the plasma display and connected components. Depending on the connections made, this section may or not be necessary.

The remainder of the sections in this manual is dedicated to the basic operations associated with selecting a source component up to the more complex operations associated with adjusting the plasma display picture to match the requirements of specific components and personal preferences.

About operations in this manual

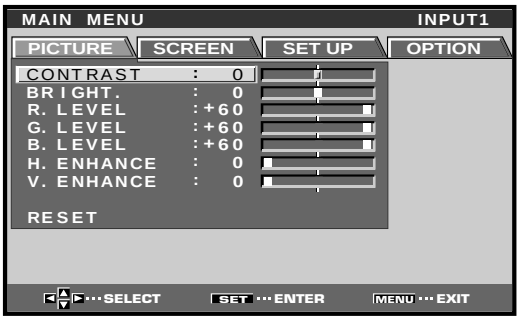
Operations in this manual are outlined in step by step numbered procedures. Most of the procedures are written in reference to the remote control unit unless the button or control is only present on the main unit. However, if a button or control on the main unit has the same or similar name as that on the remote control unit, that button can be used when performing operations.

Note

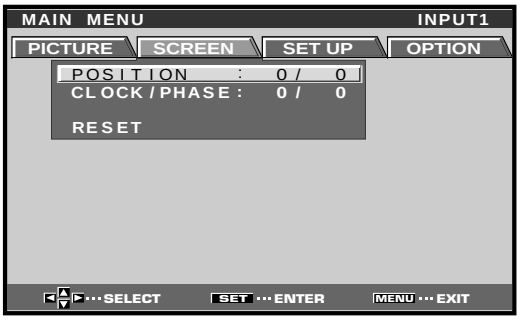
The screen displays depicted in this manual represent typical display examples.
The actual items and contents seen in screen displays may vary depending on input source and specific settings.

The following example is an actual operation that shows how one might set the horizontal and vertical positions of the screen. The screens shown at each step are provided as a visual guide to confirm that the procedure is proceeding as it should. Please familiarize yourself with this process before continuing on with the rest of this manual.

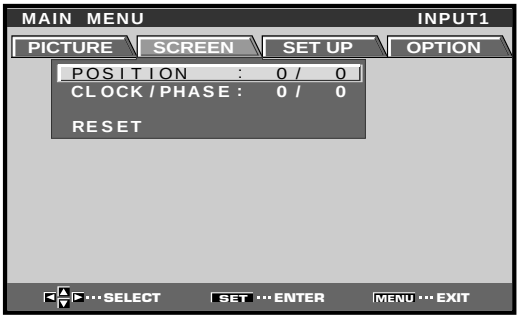
1 Press MENU to display the menu screen.



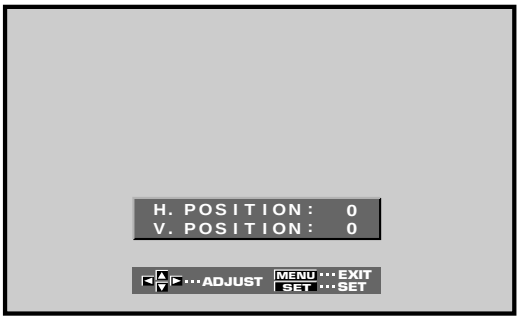
2 Press ► to select SCREEN.



3 Press ▲/▼ to select the item to be adjusted.



4 Press SET to display the adjustment screen for the selected item.

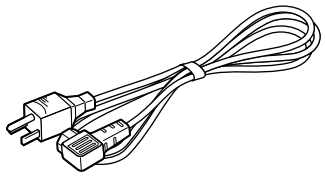


5 Press ▲/▼/◄/► to adjust the value.

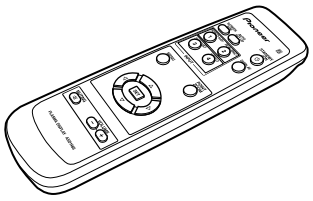
Checking Supplied Accessories

Check that the following accessories were supplied.

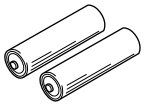
① **Power cord**



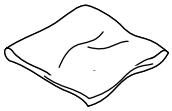
② **Remote control unit**



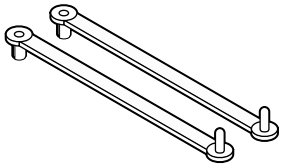
③ **AA (R6) batteries (x 2)**



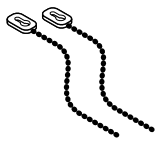
④ **Cleaning cloth (for wiping front panel)**



⑤ **Speed clamps (x 2)**



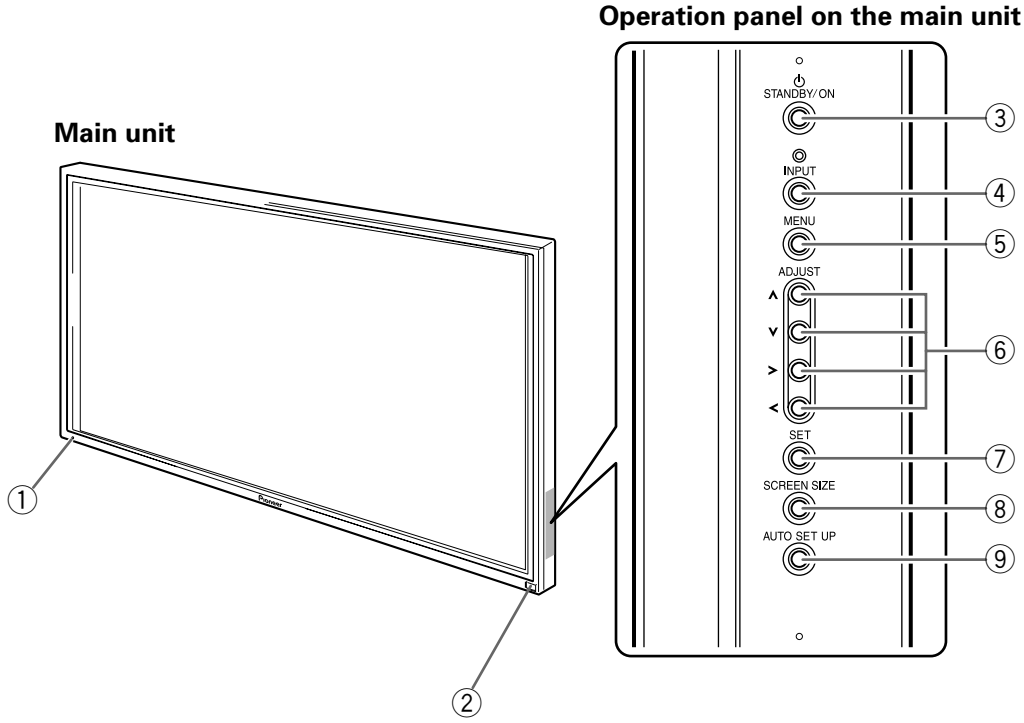
⑥ **Bead bands (x 2)**



- **Operating Instructions**
- **Warranty**

Apple and Macintosh are registered trademarks of Apple Computer, Inc.
Microsoft is a registered trademark of Microsoft Corporation.
NEC and PC-9800 are trademarks of NEC Corporation.
VESA and DDC are registered trademarks of Video Electronics Standards Association.
Power Management and Sun Microsystems are registered trademarks of Sun Microsystems, Inc.
VGA and XGA are registered trademarks of International Business Machines Co., Inc.

Main Unit



Main unit

① **STANDBY/ON indicator**
This indicator is red during standby mode, and turns to green when the unit is in the operation mode (page 20).
Flashes green when Power-Management function is operating (page 24).
The flashing pattern is also used to indicate error messages (page 35).

② **Remote control sensor**
Point the remote control toward the remote sensor to operate the unit (page 6).

Operation panel on the main unit

③ **STANDBY/ON button**
Press to put the display in operation or standby mode (page 20).

④ **INPUT button**
Press to select input (page 20).

⑤ **MENU button**
Press to open and close the on-screen menu (pages 18 to 32).

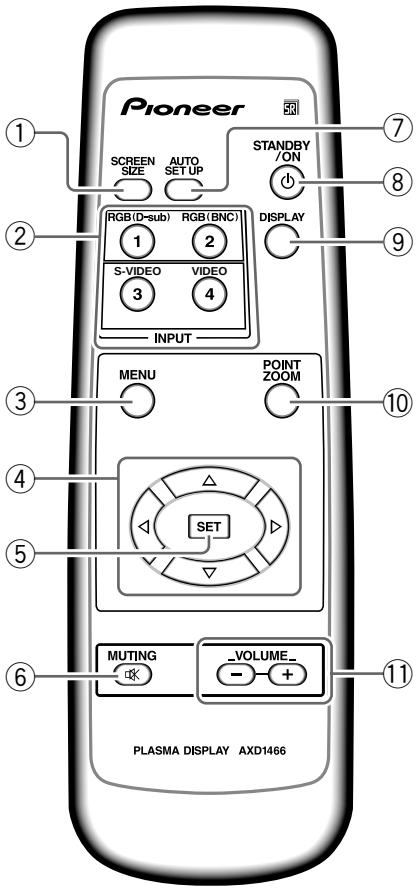
⑥ **ADJUST (▲/▼/►/◄) buttons**
Use to navigate menu screens and to adjust various settings on the unit.
Usage of cursor buttons within operations is clearly indicated in the on-screen display (pages 18 to 32).

⑦ **SET button**
Press to adjust or enter various settings on the unit (pages 18 to 32).

⑧ **SCREEN SIZE button**
Press to select the screen size (page 22).

⑨ **AUTO SET UP button**
When using computer signal input, automatically sets the POSITION and CLOCK/PHASE to optimum values (page 26).

Remote Control Unit



When handling the remote control unit

- Do not drop or shake the remote control.
- Do not use the remote control unit in a location subject to direct sunlight, heat radiation from a heater, or in a place subject to excessive humidity.
- When the remote control unit's batteries begin to wear out, the operable distance will gradually become shorter. When this occurs, replace all batteries with new ones as soon as possible.

① **SCREEN SIZE button**
Press to select the screen size (page 22).

② **INPUT buttons**
Use to select the input (page 20).

③ **MENU button**
Press to open and close the on-screen menu (pages 18 to 32).

④ **ADJUST (▲/▼/►/◄) buttons**
Use to navigate menu screens and to adjust various settings on the unit.
Usage of cursor buttons within operations is clearly indicated at the bottom the on-screen menu display (pages 18 to 32).

⑤ **SET button**
Press to adjust or enter various settings on the unit (pages 18 to 32).

⑥ **MUTING button**
Press to mute the volume (page 21).

⑦ **AUTO SET UP button**
When using computer signal input, automatically sets the POSITION and CLOCK/ PHASE to optimum values (page 26).

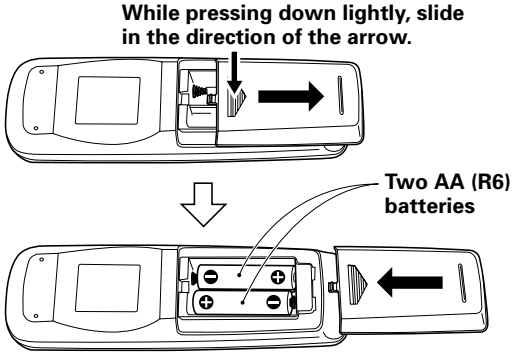
⑧ **STANDBY/ON button**
Press to put the unit in operation or standby mode (page 20).

⑨ **DISPLAY button**
Press to view the unit's current input and setup mode (page 21).

⑩ **POINT ZOOM button**
Use to select and enlarge one part of the screen (page 23).

⑪ **VOLUME (+/–) buttons**
Use to adjust the volume (page 21).

Inserting the batteries in the remote control unit



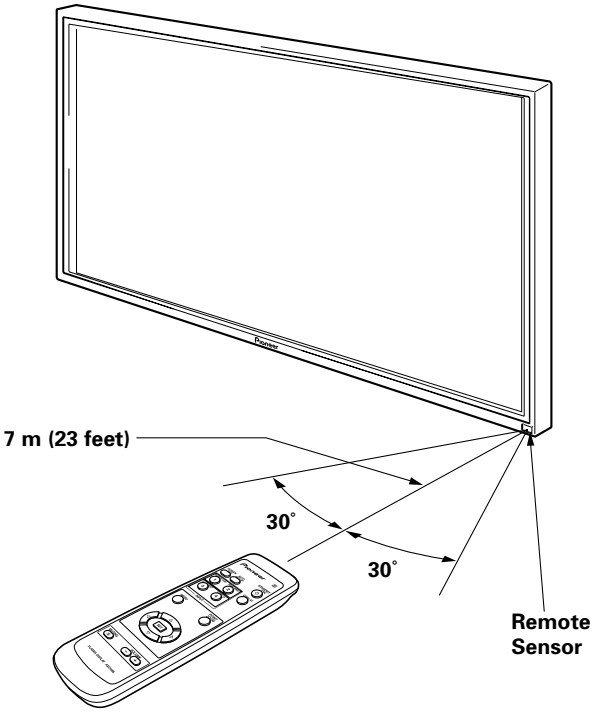
⚠ CAUTION

- Insert batteries so that the plus (+) and minus (–) sides are aligned according to the markings in the battery case.
- Do not mix new batteries with used ones.
- The voltage of batteries may differ even if they are the same shape. Please do not mix different kinds of batteries together.
- When not using the remote control unit for a long period of time (1 month or more), remove the batteries from the remote control unit to prevent leaking of battery fluid. If battery liquid has leaked, thoroughly wipe the inside of the case until all liquid is removed, and then insert new batteries.
- Do not charge, short, disassemble or throw the provided batteries in a fire.

When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area. H048 En

Operating range of the remote control unit

When operating the remote control unit, point it at the remote sensor (SR) located on the front panel of the main unit. The remote control unit is operable up to 23 feet (7 m) from the unit and within a 30 angle on each side of the sensor.



If you are having difficulty with operation of the remote control unit

- The remote control unit may not operate if there are objects placed between it and the display.
- Operational distance will gradually become shorter as the batteries begin to wear out, replace weak batteries with new ones as soon as possible.
- This unit discharges infrared rays from the screen. Placing a video deck or other component that is operated by an infrared remote control unit near this unit may hamper that component's reception of the remote control's signal, or prevent it from receiving the signal entirely. Should this occur, move the component to a position further away from this unit.
- Depending on the installation surroundings, this unit's remote control unit may be influenced by the infrared rays discharged from the plasma display, hampering reception of its rays or limiting its operational distance. The strength of infrared rays discharged from the screen will differ according to the picture displayed.

Connection Panel

The connection panel is provided with four video input terminals and two video output terminals. Audio input and speaker output terminals are also provided, together with a CONTROL IN/OUT connector for connecting to PIONEER components bearing the SR mark.
For instructions regarding connections, consult the pages noted in parentheses by each item.

① **SPEAKER (R) terminal**
For connection of an external right speaker. Connect a speaker whose impedance is 8 –16 Ω (page 14).

② **CONTROL IN/OUT (monaural mini jacks)**
For connection of PIONEER components that bear the SR mark. Making CONTROL connection enables control of this unit as a component in a system (page 15).

③ **COMBINATION IN/OUT**
DO NOT MAKE ANY CONNECTIONS TO THESE TERMINALS.
These terminals are used in the factory setup.

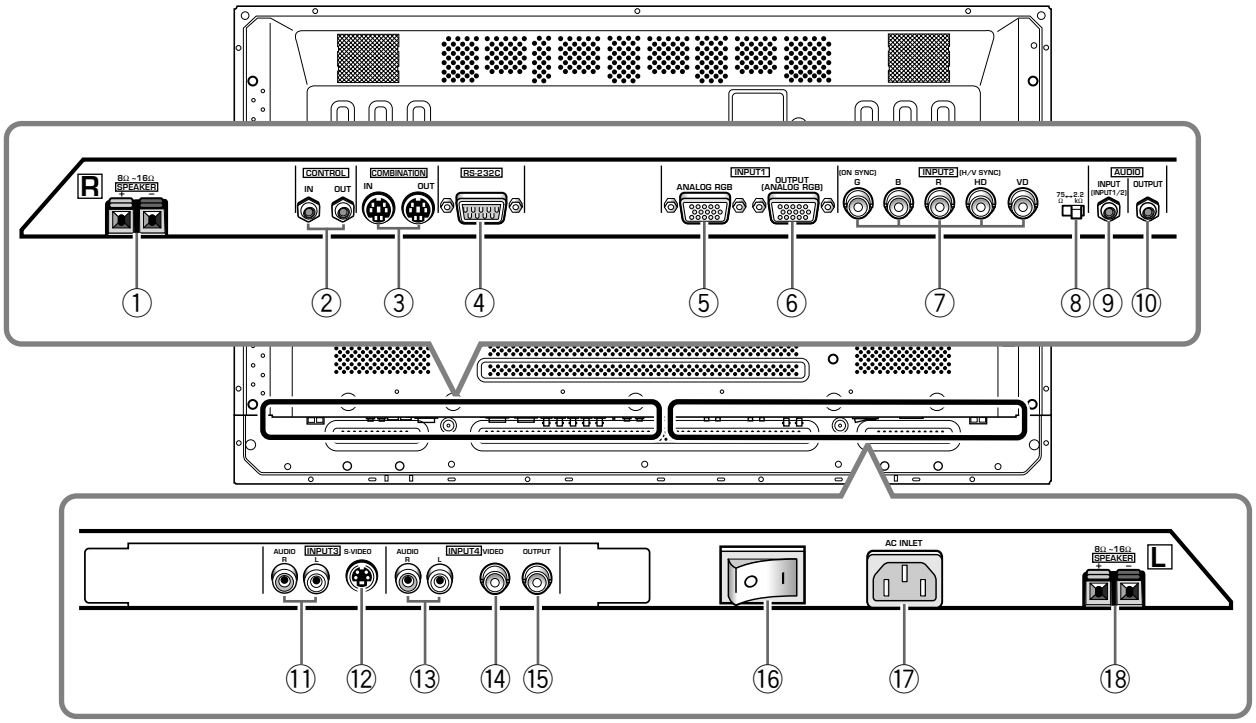
④ **RS-232C**
DO NOT MAKE ANY CONNECTIONS TO THIS TERMINAL.
This terminal is used in the factory setup.

⑤ **INPUT1 (mini D-sub 15 pin)**
For connection of components that have RGB or component output jacks such as a personal computer, DVD player, or external RGB decoder. Make sure that the connection made corresponds to the format of the signal output from the connected component (pages 9 to 12).

⑥ **OUTPUT (INPUT1) (mini D-sub 15 pin)**
Use the OUTPUT (INPUT1) terminal to output the video signal to an external monitor or other component.

Note: The video signal will not be output from the OUTPUT (INPUT1) terminal when the main power of this unit is off or in standby mode. (page 11)

⑦ **INPUT2 (BNC jacks)**
For connection of components that have RGB or component output jacks such as a personal computer, DVD player, or external RGB decoder. Make sure that the connection made corresponds to the format of the signal output from the connected component (pages 9 to 12).



⑧ **Synchronizing signal impedance selector switch**
Depending on the connections made at INPUT2, it may be necessary to set this switch to match the output impedance of the connected component's synchronization signal.
When the output impedance of the component's synchronization signal is below 75 Ω, set this switch to the 75 Ω position (pages 10, 12).

⑨ **AUDIO INPUT (Stereo mini jack)**
Use to obtain sound when INPUT1 or INPUT2 is selected.
Connect the audio output terminal of components connected to INPUT1 or INPUT2 to this unit (page 14).

⑩ **AUDIO OUTPUT (Stereo mini jack)**
Use to output the audio of the selected source component connected to this unit to an AV amplifier or similar component (page 14).

⑪ **AUDIO INPUT3 (RCA Pin jacks)**
Use to obtain sound when INPUT3 is selected.
Connect these jacks to the audio output connectors of components connected to INPUT3 (page 14).

Note: The left audio channel (L) jack is not compatible with monaural input sources.

⑫ **INPUT3 (S-video jack)**
For connection of components that have an S-video output terminal such as a video deck, video camera, LaserDisc player, or DVD player. (page 13)

⑬ **AUDIO INPUT4 (RCA Pin jacks)**
Use to obtain sound when INPUT4 is selected.
Connect these terminals to the audio output connectors of components connected to INPUT4 (page 15).

Note: The left audio channel (L) jack is not compatible with monaural input sources.

⑭ **INPUT4 (BNC jack)**
For connection of components that have a composite video output terminal such as a video deck, video camera, LaserDisc player, or DVD player (page 13).

⑮ **OUTPUT (INPUT4) (BNC jack)**
Use the OUTPUT (INPUT4) terminal to output the video signal to an external monitor or other component.

Note: The video signal will not be output from the OUTPUT (INPUT4) terminal when the main power of this display is off or in standby mode (page 13).

⑯ **Main power switch**
Use to switch the main power of the unit on and off.

⑰ **AC INLET**
Use to connect the supplied power cord to an AC outlet (page 16).

⑱ **SPEAKER (L) terminal**
For connection of an external left speaker. Connect a speaker that has an impedance of 8 –16 Ω (page 14).

Installation of the Unit

Installation using the optional PIONEER stand or installation bracket

- Please be sure to request installation or mounting of this unit or the installation bracket by the dealer where purchased.
- When installing, be sure to use the bolts provided with the stand or installation bracket.
- For details concerning installation, please refer to the instruction manual provided with the stand or installation bracket.

Installation using accessories other than the PIONEER stand or installation bracket (sold separately)

- When possible, please install using parts and accessories manufactured by PIONEER. PIONEER will not be held responsible for accident or damage caused by the use of parts and accessories manufactured by other companies.
- For custom installation, please consult the dealer where the unit was purchased.

Wall-mount installation of the unit

This unit has been designed with bolt holes for wall-mount installation, etc.. The installation holes that can be used are shown in the diagram below.

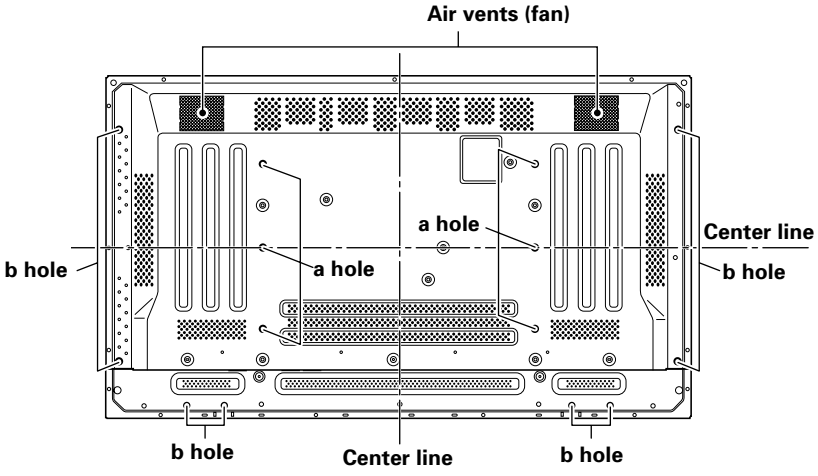
- Be sure to attach in 4 or more locations above and below, left and right of the center line.
- Use bolts that are long enough to be inserted 1/2 inch (12 mm) to 11/16 inch (18 mm) into the main unit from the attaching surface for both a holes and b holes. Refer to the side view diagram below.
- As this unit is constructed with glass, be sure to install it on a flat, unwarped surface.

⚠ CAUTION

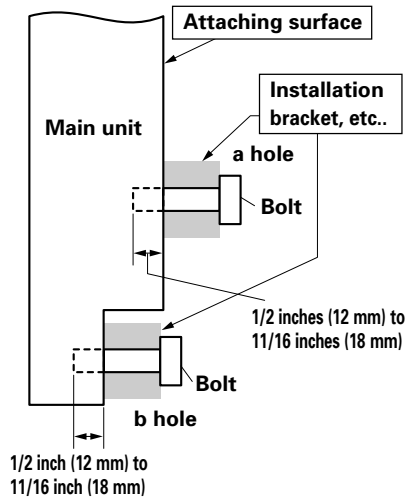
To avoid malfunction, overheating of this unit, and possible fire hazard, make sure that the vents on the main unit are not blocked when installing. Also, as hot air is expelled from the air vents, be careful of deterioration and dirt build up on rear surface wall, etc..

⚠ CAUTION

Please be sure to use an M8 (Pitch = 1.25 mm) bolt. (Only this size bolt can be used.)



Rear view diagram



Side view diagram

■ Optional line (sold separately)
(For details, please consult the dealer where this unit was purchased.)

1 Table top stand : PDP-4300 display stand.
2 Wall installation unit : Wall installation bracket designed as a wall interface for securing the unit.

⚠ CAUTION

This display unit weighs at least 67 lbs (30 kg) and has little front-to-back depth, making it very unstable when stood on edge. As a result, two or more persons should cooperate when unpacking, moving, or installing the display.

⚠ CAUTION

This unit incorporates a thin design. To ensure safety if vibrated or shaken, please be sure to take measures to prevent the unit from tipping over.

About the Input Connectors on this Unit

Consult the following chart when making connections to a plasma display (pages 9 to 15).

Connected component and signals / Input Connector		INPUT 1*1	INPUT 2*1	INPUT 3	INPUT 4
AV component	Analog RGB	○	○		
	Component video	○	○		
	S video			○	
	Composite video				○
Personal computer (PC)	Analog RGB	○*2	○		
	S video			○*3	
	Composite video				○*3

*1 Although INPUT1/INPUT2 are compatible with various kinds of signals, setup using the on-screen menu is necessary after connections are made in order match the characteristics of the source component (pages 18 and 19).
*2 INPUT1 is compatible with Microsoft's Plug & Play (VESA DDC 1/2B).
*3 Depending on the video output board of the computer, this type of connection may not be possible.

Connection to INPUT1 and INPUT2

Various components can be connected to the INPUT1 and INPUT2 terminals. After connections are made, on-screen setup is necessary to match the characteristics of the connected component. Please see pages 18 and 19 for on-screen setup after connection.

Output source / INPUT2 terminal	[ON SYNC] G	B	R	[H/V SYNC] HD	VD
Video component/ Personal computer (PC) with RGB output	○ G ON SYNC	○ B	○ R	×	×
	○ G	○ B	○ R	○ H/V SYNC	×
	○ G	○ B	○ R	○ HD	○ VD
Video component with component video output	○ Y	○ C_B/P_B	○ C_R/P_R	×	×

× : Do not connect anything. ○ : Connect to this jack.

Note

Components compatible with INPUT1 are also compatible with INPUT2.
When making connections to INPUT1, please refer to supplement 3 on page 38.

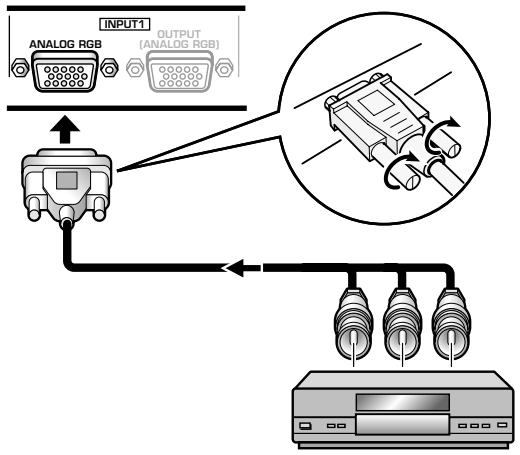
For the screen sizes and input signals that INPUT1 and INPUT2 are compatible with, please refer to supplement 1 (page 37) and supplement 2 (page 38).

Connection to AV components

Connection to AV component that has component video jacks

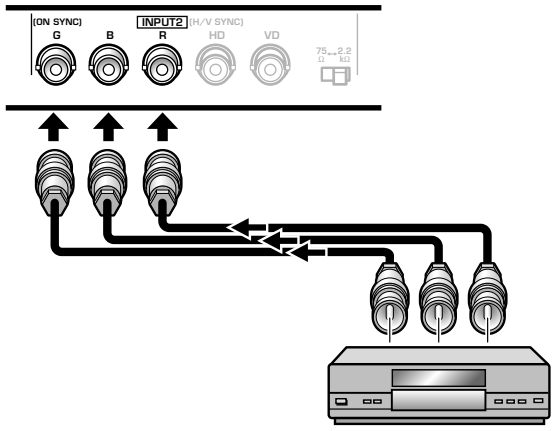
Make component video connections for AV components such as DVD and LD players or similar components with component video output capability.

When connecting to INPUT1



On-screen setup is necessary after connection.
Please see page 18.

When connecting to INPUT2

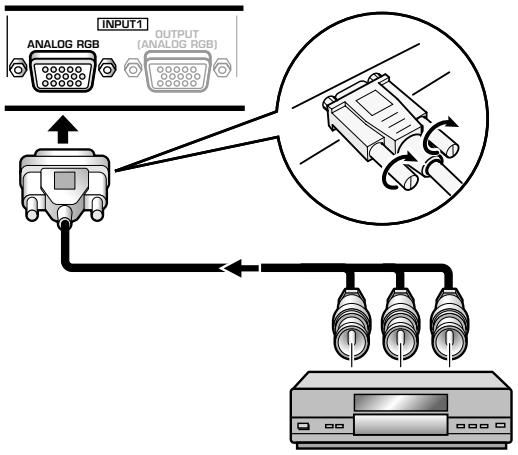


Connect the Y signal to the G terminal, the C_B/P_B signal to the B terminal, and the C_R/P_R signal to the R terminal.
On-screen setup is necessary after connection.
Please see page 18.

Connection of G ON SYNC analog RGB source

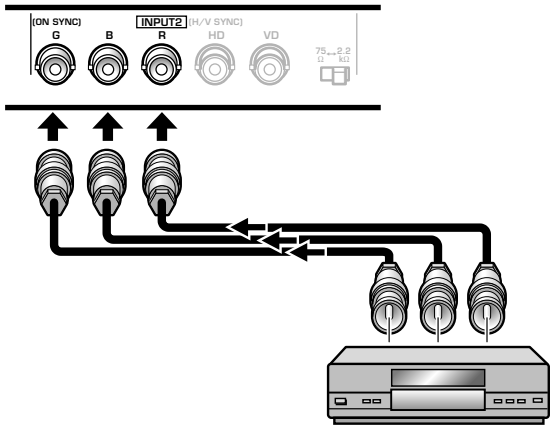
Make G ON SYNC connections for a component with output that has the synchronization signal layered on top of the green signal.

When connecting to INPUT1



On screen setup is necessary after connection.
Please see pages 18 and 19.

When connecting to INPUT2



On screen setup is necessary after connection.
Please see pages 18 and 19.

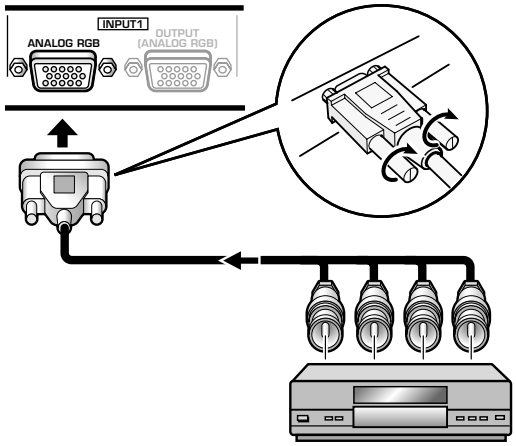
Note

When making G ON SYNC connections, do not make any connections to the VD or HD terminals. If connections are made, the picture may be not displayed normally.

Connection of composite SYNC analog RGB source

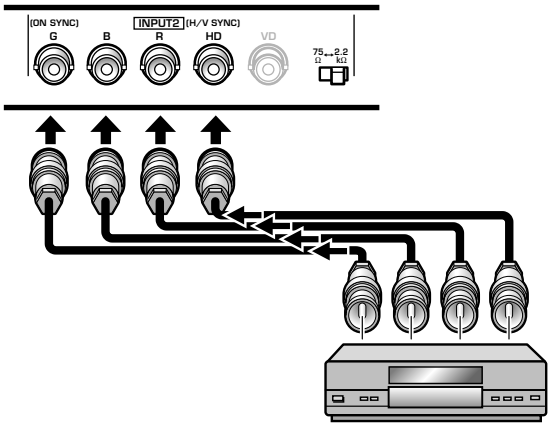
Make composite SYNC connections for a component with output that has the vertical synchronization signal layered on top of the horizontal synchronization signal.

When connecting to INPUT1



On-screen setup is necessary after connection.
Please see pages 18 and 19.

When connecting to INPUT2



When using INPUT2, set the impedance selector switch to match the output impedance of the connected component's synchronization signal.
When the output impedance of the component's synchronization signal is below 75 Ω, set this switch to the 75 Ω position.
On-screen setup is necessary after connection.
Please see pages 18 and 19.

Note

When making composite SYNC connections, do not connect anything to the VD terminal. If connected to, the picture may not be displayed properly.

Connection to a personal computer

Connection method differs depending on the computer type. When connecting, please thoroughly read the computer's instruction manual.

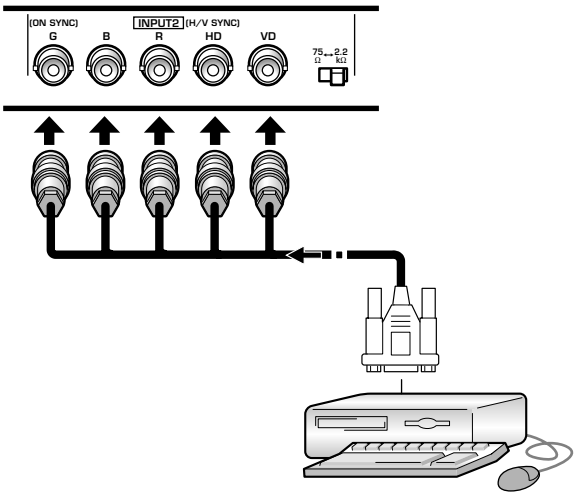
Before making connections, be sure to make sure that the personal computer's power and this unit's main power is off.

For the PC input signals and screen sizes that this unit is compatible with, please refer to supplement 1 (page 37).

Connection of separate SYNC analog RGB source

Make separate SYNC connections for a personal computer that has RGB output separated into 5 output signals: green, blue, red, horizontal synchronization signal, and vertical synchronization signal.

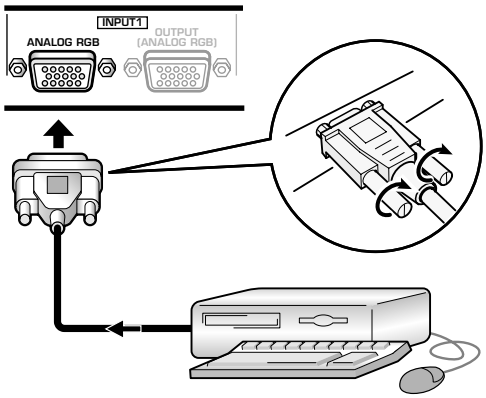
When connecting to INPUT2



When using INPUT2, set the impedance selector switch to match the output impedance of the connected computer's synchronization signal.
When the output impedance of the computer's synchronization signal is below 75 Ω, set this switch to the 75 Ω position.

On-screen setup is necessary after connection.
Please see pages 18 and 19.

When connecting to INPUT1



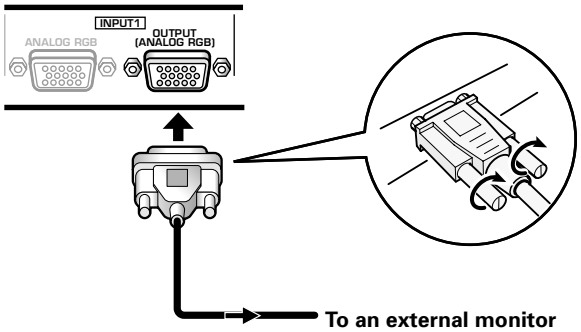
Connect the cable corresponding to the shape of the input terminal on this unit and the personal computer's output terminal.
Secure by tightening the terminal screws on both units.

After connecting, on-screen setup is necessary.
Please see pages 18 and 19.

Note

Depending on the type of computer model being connected, a conversion connector or adapter etc. provided with the computer or sold separately may be necessary.
For details, please read your PC's instruction manual or consult the maker or nearest dealer of your computer.

When connecting to OUTPUT (INPUT1)



With this unit, it is possible to output the video signal to an external monitor or other component from the OUTPUT (INPUT1) terminal.

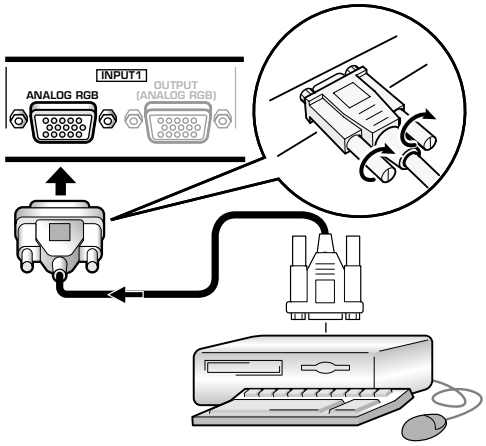
Note

A video signal will not be output from the OUTPUT (INPUT1) terminal when the main power of this unit is off or in standby.

Connection of G ON SYNC analog RGB source

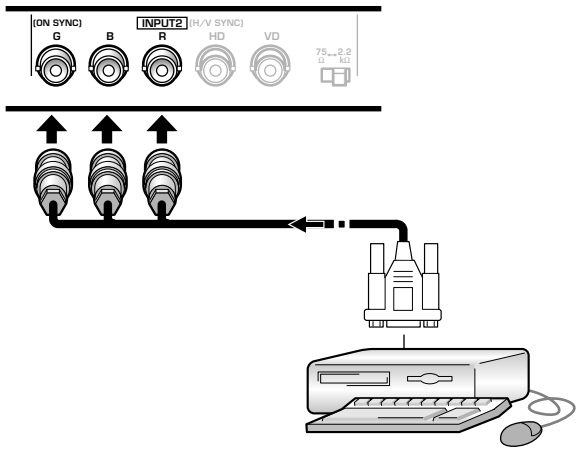
Make G ON SYNC connections for a personal computer with output that has the synchronization signal layered on top of the green signal.

When connecting to INPUT1



On screen setup is necessary after connection.
Please see pages 18 and 19.

When connecting to INPUT2



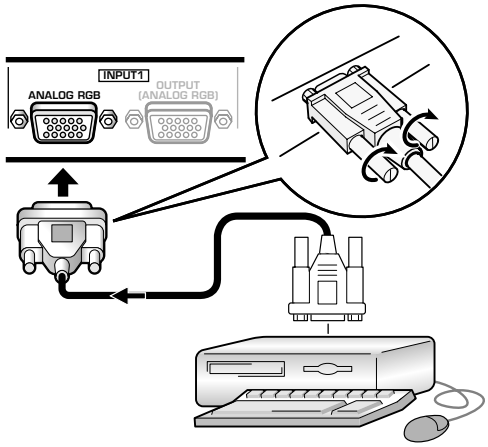
On screen setup is necessary after connection.
Please see pages 18 and 19.

Note
When making G ON SYNC connections, do not make any connections to the VD or HD terminals. If connections are made, the picture may be not displayed normally.

Connection of composite SYNC analog RGB source

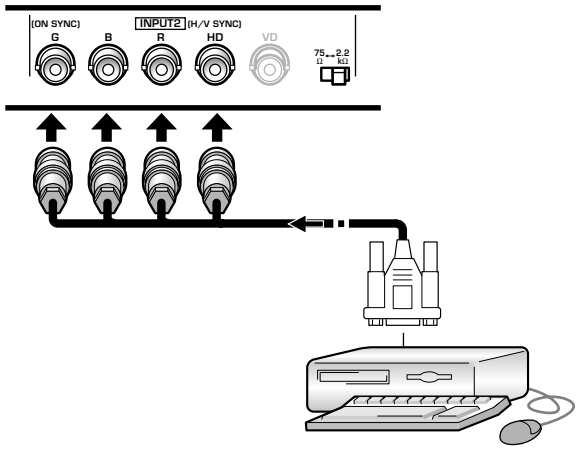
Make composite SYNC connections for a personal computer with output that has the vertical synchronization signal layered on top of the horizontal synchronization signal.

When connecting to INPUT1



On-screen setup is necessary after connection.
Please see pages 18 and 19.

When connecting to INPUT2

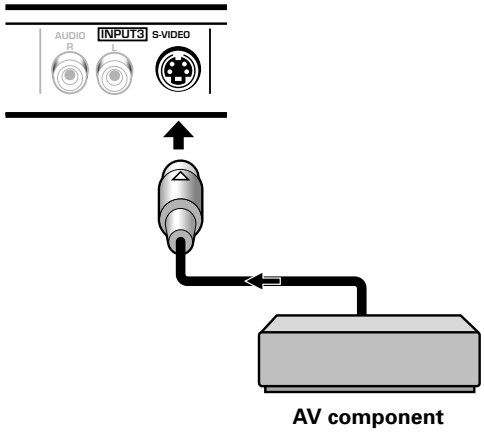


When using INPUT2, set the impedance selector switch to match the output impedance of the connected computer's synchronization signal.
When the output impedance of the computer's synchronization signal is below 75 Ω, set this switch to the 75 Ω position.
On-screen setup is necessary after connection.
Please see pages 18 and 19.

Notes
- When making composite SYNC connections, do not connect anything to the VD terminal. If connected, the picture may not be displayed properly.
- On some types of Macintosh® components, G ON SYNC and composite SYNC are both output. With this type of component, please connect using the G ON SYNC connection.

Connection to INPUT3

Connect an AV component that has S-video output terminal to the S-VIDEO input terminal.

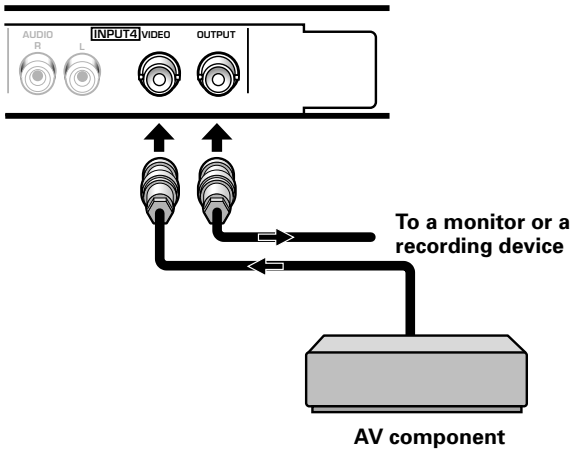


Connection to INPUT4

Connect an AV component that has a video output terminal to the INPUT4 terminal. The OUTPUT (INPUT4) terminal can be used to output the video signal to a separate monitor, recording device or other component with video input capability.

Note

A video signal will not be output from the OUTPUT (INPUT4) terminal when the main power of this display is off or in standby mode.



About DTV Set Top Box Connection

To ensure proper connection, please carefully read the instruction manual supplied with the DTV set top box.

The set top box output signals that this display is compatible with are as follows.

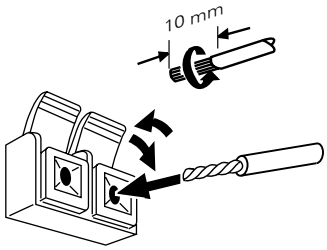
Video signal type	Video signal	Video signal format	Terminals where connection is possible			
			INPUT1	INPUT2	INPUT3	INPUT4
HDTV	1080i 1080p 720p	Component	◎	◎		
		RGB	◎	◎		
SDTV	480i	Composite				◎
		S Video			◎	
		Component	◎	◎		
		RGB	◎	◎		
	480p	Component	◎	◎		
		RGB	◎	◎		

Audio Connections

Before making connections, be sure to check that the audio component's power and the unit's main power is off.

Connecting the speakers

This unit is equipped with a 2W+2W internal amplifier. If speakers are to be connected to the unit, following the accompanying connection instructions.



Twist exposed wire strands together.

Push tab to the open position, and insert the wire. Then, close tab firmly to secure the wire in place.

Note

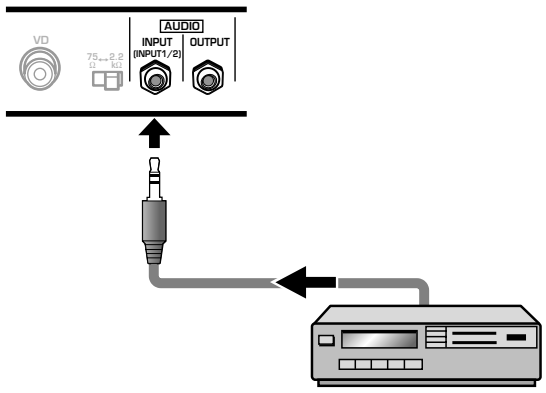
When making speaker connections, be sure to match the polarities (+ and –) of the speaker terminals on this unit and the corresponding terminals on the speakers. If the polarity is reversed, the sound will be unnatural and lack bass.

Making connections to the audio inputs on this unit

This unit features three audio inputs and one audio output. The following chart shows the video inputs and the corresponding audio input terminals.

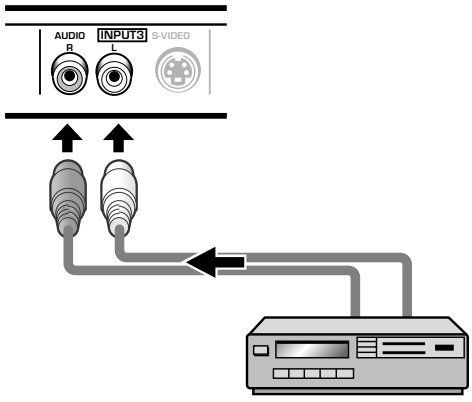
Video input	Audio input terminal	Sound output
INPUT1	Stereo mini jack (L/R)	Sound of the selected video input is output from the • SPEAKER terminals • Stereo mini jack (L/R).
INPUT2		
INPUT3	Pin jacks (L/R)	
INPUT4	Pin jacks (L/R)	

Audio connections for component (computer) connected to INPUT 1 or INPUT 2



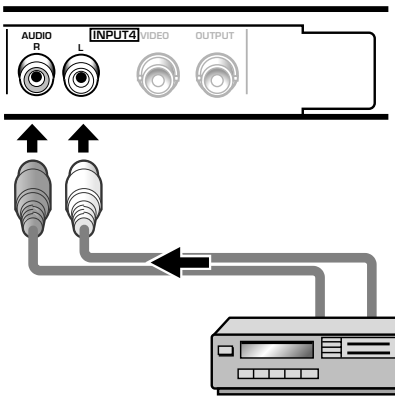
Audio input to the AUDIO INPUT terminal (stereo mini jack) is possible for a component connected to either INPUT1 or INPUT2.
Sound is output from both the AUDIO OUTPUT terminal (stereo mini jack) and the SPEAKER terminals according to the video input selection.

Audio connection for component connected to INPUT3



Audio input to the AUDIO INPUT3 terminals (pin jacks (L/R)) is possible for a component connected to INPUT3.
Sound is output from both the AUDIO OUTPUT terminal (stereo mini jack (L/R)) and the SPEAKER terminals according to the video input selection.

Audio connection for component connected to INPUT4



Audio input to the AUDIO INPUT4 terminals (pin jacks (L/R)) is possible for a component connected to INPUT4. Sound is output from both the AUDIO OUTPUT terminal (stereo mini jack (L/R)) and the SPEAKER terminals according to the video input selection.

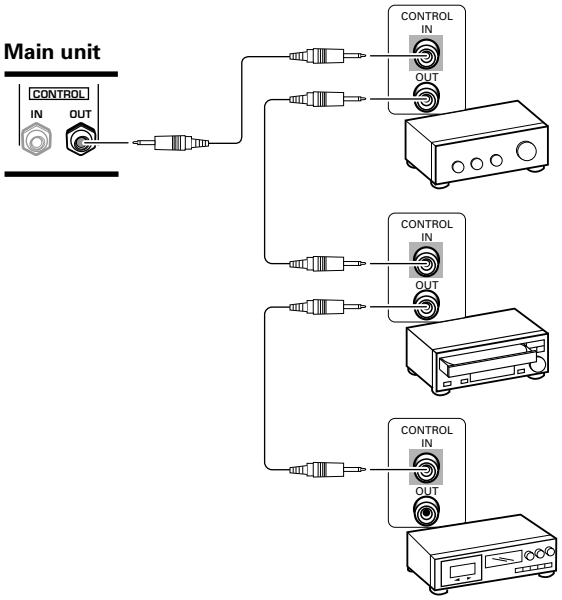
Control Cord Connection

When control cord connections are made, remote control operation of connected PIONEER components that bear the SR logo mark is done through the remote sensor on this unit.
When the connection is made to the CONTROL IN terminal on another unit, the remote sensor of that component will no longer receive signals. Point the remote control unit of the connected component at the remote control sensor on this unit to control.

Notes

- **Make sure the power is turned off when making connections.**
- **Please complete all component connections before making control cord connections.**

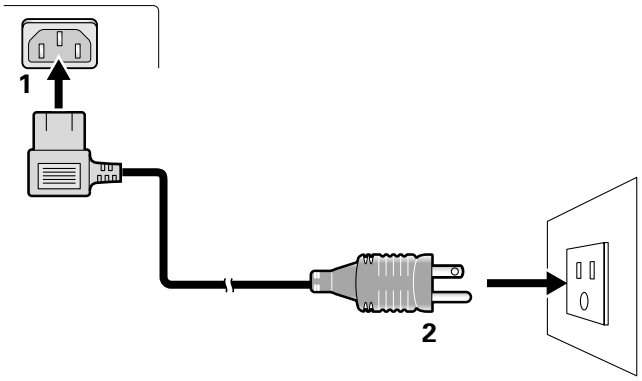
Main unit



The control cables (not supplied) are monaural cables with mini plugs (no resistance).

Power Cord Connection

Connect the power cord after all component connections have been completed.



1 Connect the power cord to this unit.

2 Plug the power cord into a power outlet.

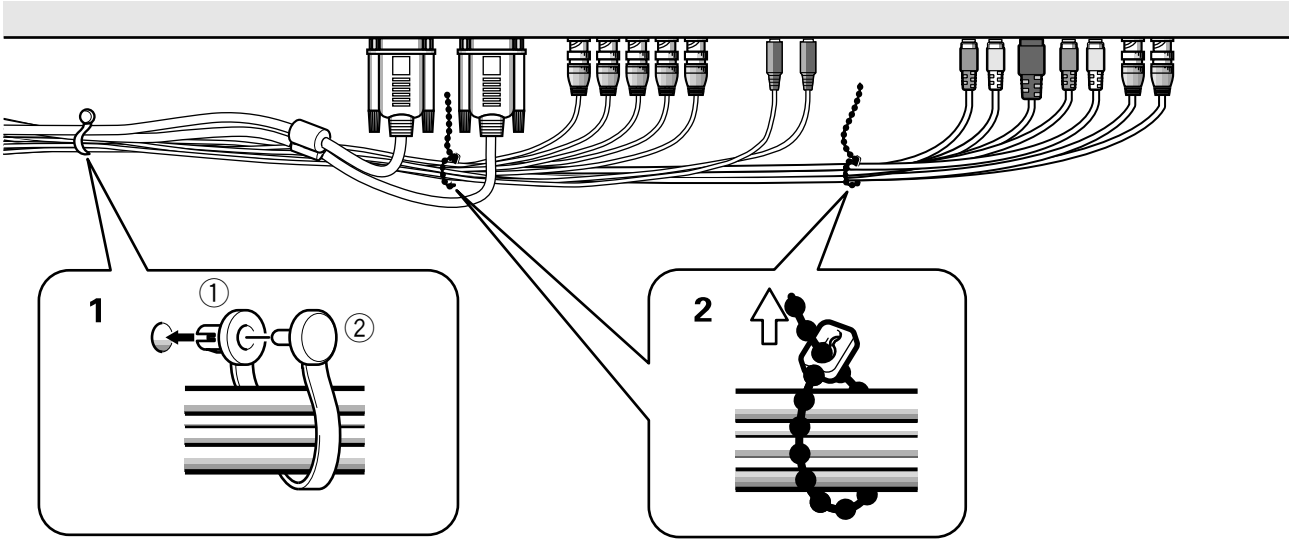
⚠ CAUTION

- Use only the power cord provided.
- Do not use a power supply voltage other than that indicated (AC 120 V, 60 Hz) as this may cause fire or electric shock.
- For the plasma display, a three-core power cord with a ground terminal is used for efficiency protection. Always be sure to connect the power cord to a three-pronged grounded outlet and make sure that the cord is properly grounded. If you use a power source converter plug, use an outlet with a ground terminal and screw down the ground line.

How to Route Cables

Speed clamps and bead bands are included with this unit for bunching cables together. Once components are connected, follow the following steps to route cables.

* As viewed from the rear of the display.



1 Organize cables together using the provided speed clamps.

Insert ① into an appropriate hole on the rear of the unit, then snap ② into the back of ① to fix the clamp.

Speed clamps are designed to be difficult to undo once in place. Please attach carefully.

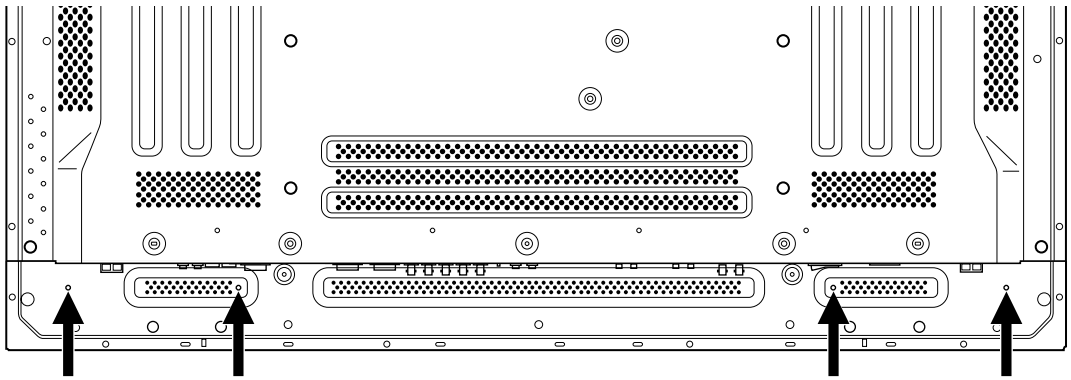
2 Bunch separated cables together and secure them with the provided bead bands.

Note

Cables can be routed to the right or left.

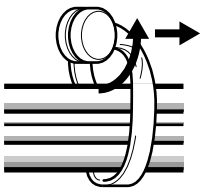
To attach the speed clamps to the main unit

Connect the speed clamps using the 4 holes marked with • (Black dot) below, depending on the situation.



To remove speed clamps

Using pliers, twist the clamp 90° and pull it outward. In some cases the clamp may have deteriorated over time and may get damaged when removed.



Setup after Connection

After components have been connected to INPUT1 or INPUT2, on-screen setup is necessary.
Follow the procedure described below and make settings as they apply to the type of components connected.

Setting the Screen Mode/Input Signal Format

Notes

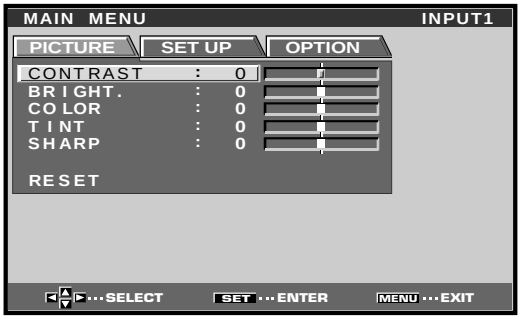
- The Screen Mode setting (steps 6 – 7) is required only when using the following input signal refresh rates: ① 31.5 kHz horizontal / 60 Hz vertical; ② 48.4 kHz horizontal / 60 Hz vertical; ③ 56.5 kHz horizontal / 70 Hz vertical. No setup is necessary for signals with other refresh rates, since adjustments are performed automatically (the SETTING item will not be displayed).
- The Input Signal Format setting (steps 8 – 9) is required only when inputting a video signal. It is not supported when inputting a computer signal, or when the Screen Mode setting has been used to select a mode other than VIDEO.

1 **Switch the main power switch on the connection panel to the on position to turn on the unit's main power.**
The STANDBY/ON indicator lights red.

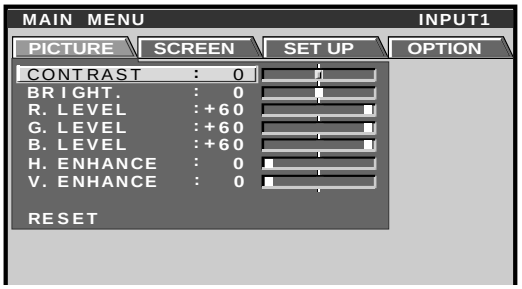
2 **Press STANDBY/ON to put the unit in the operation mode.**
The STANDBY/ON indicator turns green.

3 **Select INPUT1 or INPUT2.**

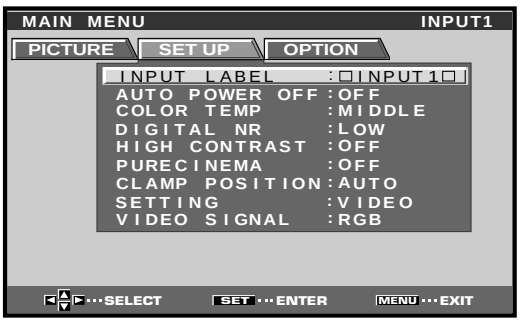
4 **Press MENU to display the menu screen.**
The menu screen appears.



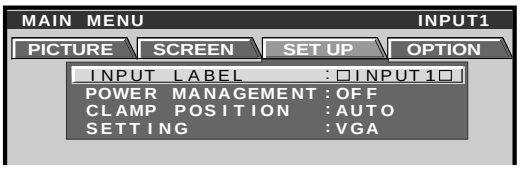
[When inputting a computer signal]



5 **Press ◄/► to select SET UP.**

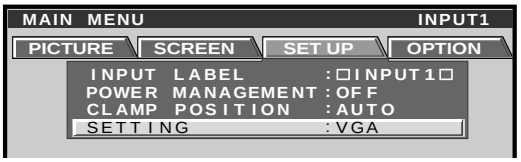


[When inputting a computer signal]



6 **Press ▲/▼ to select SETTING, then press SET.**

[When inputting a computer signal]



7 **Press ◄/► to select the display mode.**
When a component other than a personal computer is connected, set to "VIDEO".

① When the input signal has a refresh rate of 31.5 kHz (horizontal) and 60 Hz (vertical), pressing ◄/► will cause the display mode to change alternately as follows:

PC AUTO ⟷ VGA
VIDEO ⟷ WIDE VGA

② When the input signal has a refresh rate of 48.4 kHz (horizontal) and 60 Hz (vertical), pressing ◄/► will cause the display mode to change alternately as follows:

PC AUTO ⟷ XGA
WIDE XGA

③ When the input signal has a refresh rate of 56.5 kHz (horizontal) and 70 Hz (vertical), pressing ◄/► will cause the display mode to change alternately as follows:

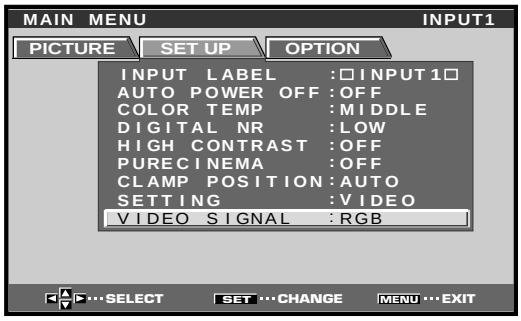
XGA ⟷ WIDE XGA

If the PC AUTO setting is selected when using the above PC input signals, screen resolution will automatically switch between VGA/WVGA or XGA/WXGA.

Note

The PC AUTO setting supports automatic signal selection only when using RGB separate Sync inputs.
When G ON SYNC or Composite Sync signals are input, selecting PC AUTO will cause the screen resolution to be set to VGA or XGA only. When using a G ON SYNC or Composite SYNC signal for WIDE VGA or WIDE XGA inputs, set the screen display mode manually.

8 When inputting a video signal (When VIDEO is selected), press ▲/▼ to select VIDEO SIGNAL.



9 Press SET repeatedly to select the input signal format.

Selection will change as follows each time **SET** is pressed.

RGB
COMPONENT

The table below shows what settings are appropriate and available for the type of connections made.

Set SETTING and VIDEO SIGNAL as follows.

SET UP / Connected component	SETTING	VIDEO SIGNAL
Component video output of a DVD player, etc.	VIDEO	COMPONENT
RGB video output of a video deck etc., with RGB output	VIDEO	RGB
RGB video output of a PC	PC AUTO VGA WVGA XGA WXGA	Not supported

10 When the setup is completed, press MENU to exit the menu screen.

Note

Make this setup for each input (INPUT1 and INPUT2).

CLAMP POSITION setup

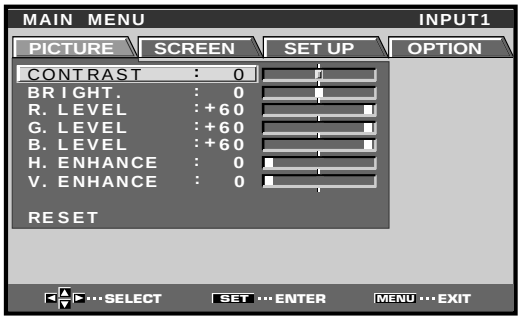
Depending on the signal, analog RGB signals may result in the screen image appearing with a whitish or greenish cast. In such cases, set "CLAMP POSITION" to LOCKED.

- Normally, leave this setting at AUTO.

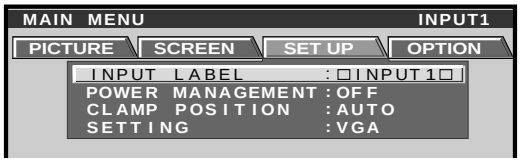
Setup of CLAMP POSITION

1 Press MENU to display the menu screen.

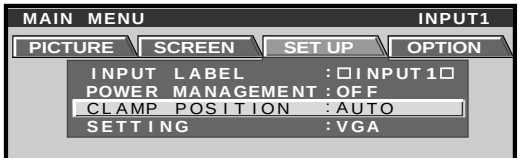
The menu screen appears.



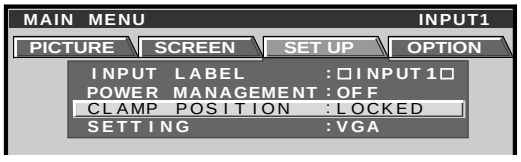
2 Press ◄/► to select SET UP.



3 Press ▲/▼ to select CLAMP POSITION.



4 Press SET to select LOCKED.



Mode selection will change as follows each time **SET** is pressed.

AUTO
LOCKED

5 When the setup is completed, press MENU to exit the menu screen.

Notes

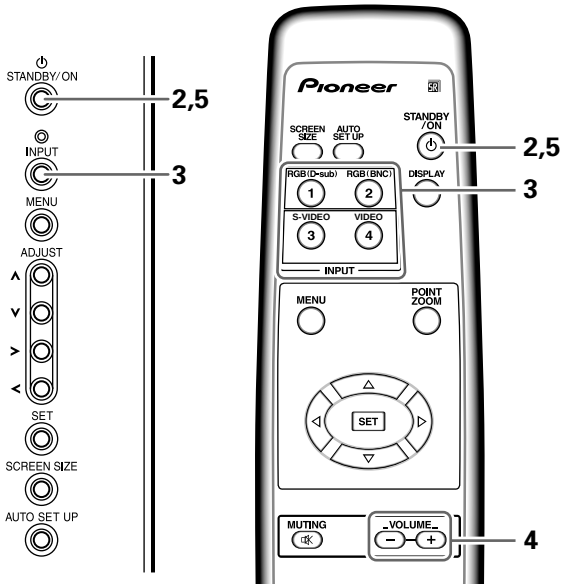
- Make this CLAMP POSITION setting for each applicable input (INPUT1 and INPUT2).
- When using this setup, be sure to carefully check the signal output of the component that you are using. For details, please refer to the instruction manual supplied with the component you are connecting.

Selecting an Input Source

This section explains the basic operation of this unit. Outlined on the following pages is how to turn the main power on and off, put this unit in the operation or standby mode and how to select connected components.

Before you begin, make sure you have:

- Made connections between this unit and AV components or personal computer as described in the section "Installation and Connections" starting on page 8.
- Set up the on-screen menu to input signals from components connected to INPUT1 and INPUT2 as described in the section "Setting Up the System" on page 18.
  If no connections are made to these terminals, on-screen setup is not necessary.

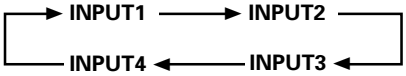


Main Unit Operating Panel **Remote Control Unit**

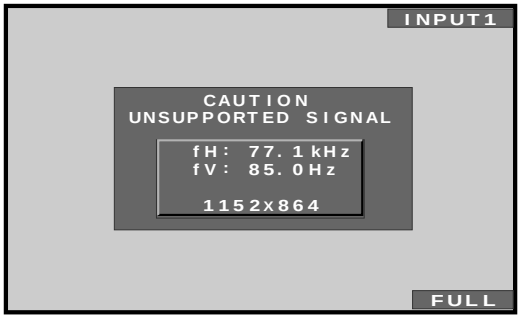
1 Switch the main power switch on the main unit to the on position to turn the main power on.
The STANDBY/ON indicator lights red.

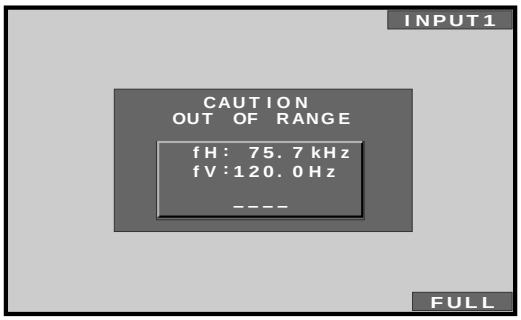
2 Press STANDBY/ON to put this unit in the operation mode.
The STANDBY/ON indicator turns green.

3 Press INPUT on the remote control unit or the main unit to select the input.
Input changes each time the main unit's **INPUT** is pressed as follows.



- When the menu screen is displayed, changing the signal input will cause the menu screen to turn off.
- If the input computer signal is not supported by the display, the following message will be displayed:





4 Use VOLUME +/– on the remote control unit to adjust the volume.
If no audio connections are made to this unit, this step is not necessary.

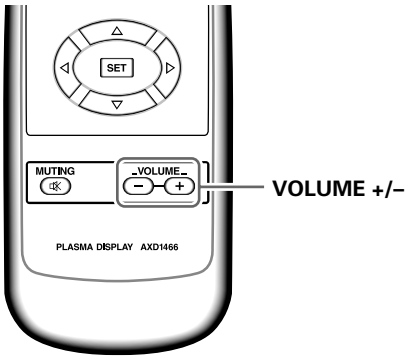
5 When viewing is finished, press STANDBY/ON to put the unit in standby mode.
The STANDBY/ON indicator will blink and then remain lit (red) indicating that the standby mode is engaged. Operation is not possible while the STANDBY/ON indicator is blinking (red).

6 Switch MAIN POWER on the main unit to the off position to turn the main power off.
The STANDBY/ON indicator may continue to light for a short while even after the main power is turned off. This is a result of residual electric load impressed on the circuitry, and the light will turn off presently.

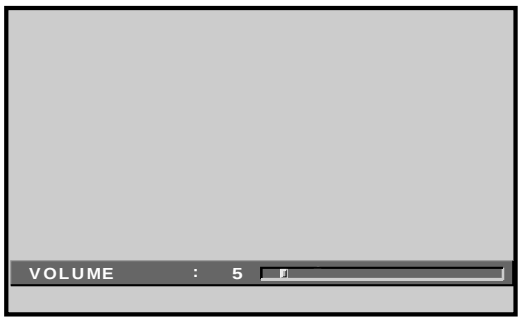
CAUTION

Please do not leave the same picture displayed on the screen for a long time. Doing so may cause a phenomenon known as "screen burn" which leaves a ghost, or residual, image of the picture on the screen.

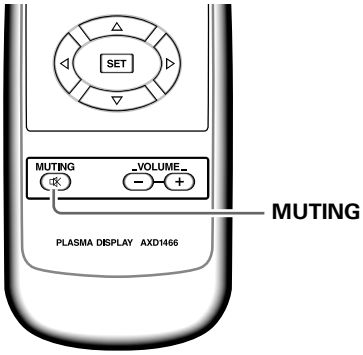
To adjust the volume



Press VOLUME on the remote control unit.
Use **VOLUME +** or **VOLUME –** to adjust the volume of the connected speakers.

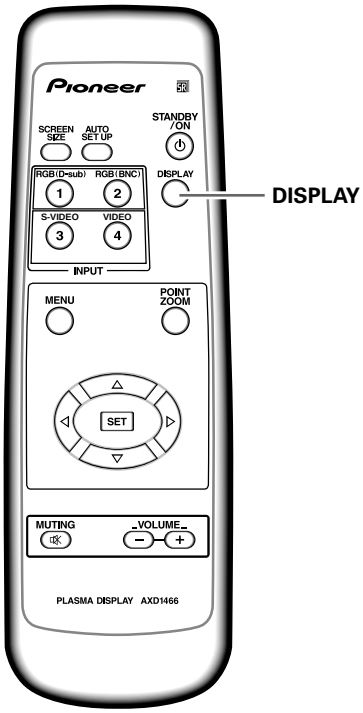


To mute the sound

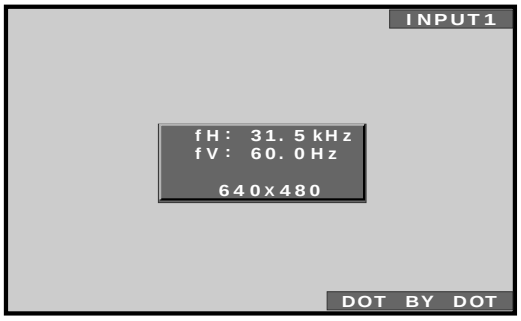


Press MUTING on the remote control unit.
Press **MUTING** again to restore the sound.
Muting is automatically canceled about 8 minutes after the button is pressed, and the volume level is adjusted to the minimum level.
Press **VOLUME +** or **VOLUME –** to adjust the volume at a desired level.

To confirm display settings



Press DISPLAY on the remote control unit.
The currently selected input, screen size and refresh rates will be displayed for about 3 seconds.



Note
The displayed refresh rates may be slightly different from the actual values.

Screen Size Selection

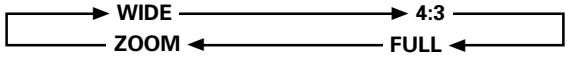
This unit incorporates screen modes of various height and width ratios. For optimal viewing, we recommend that you select the screen mode that best matches the video source that you are viewing. Although these modes are designed for full display of a picture on a wide screen, it is our hope that you make use of them with a full understanding of the manufacturer's intentions.

Changing the screen size

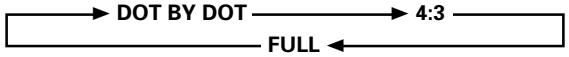
The size of the picture or the picture's range projected on the screen can be changed between 4 screen sizes described in the table on this page.

Press SCREEN SIZE to select the size.
The screen size changes each time **SCREEN SIZE** is pressed as follows.

[During video signal input]



[During personal computer signal input]



Consult the table Computer Signal Formats Supported (page 37) for information regarding screen sizes supported by each signal format.

Notes

- When the WIDE, ZOOM or FULL setting is used to display a non-wide screen 4:3 picture fully on a wide screen, a portion of the picture may be cut off or appear deformed.
- Be aware that when the display is used for commercial or public viewing purposes, selecting the WIDE, ZOOM or FULL mode settings may violate the rights of authors protected under copyright law.
- When DOT BY DOT or 4:3 screen sizes are selected, the display position is moved slightly each time the power is turned on, in order to prevent image burning.

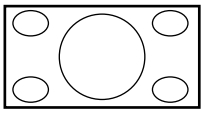
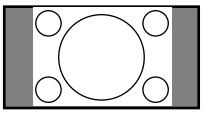
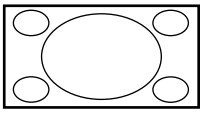
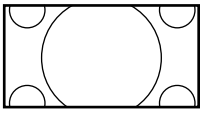
Moving the screen position upward or downward

When a vista size movie etc., is viewed at the ZOOM setting, the image may not be centered on the screen, and may extend past the edge of the screen.
In this case, adjust the screen to an clearly viewable position using ▲/▼.

Automatic screen size

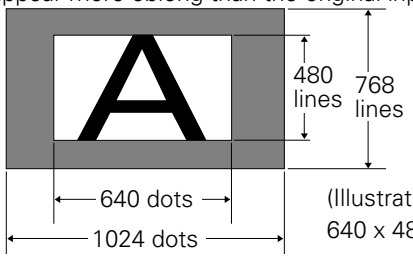
When a High-Definition Television signal (1080i, 720p, 1080p) is detected, the screen size is automatically changed to FULL.

During video signal input

How the picture looks	
WIDE 	Suitable for when viewing news or sports programs. Movies or sports programs can be viewed with an expansive powerful image.
4:3 	Suitable for when viewing news or sitcoms. The video software can be viewed in its original screen frame size. (To prevent screen burn on this display, the displayed position of the screen frame will be slightly different each time the power is turned on.)
FULL 	Suitable for wide screen images (squeeze).
ZOOM 	Mainly suitable for viewing Cinemascope size and other such movie images. Provides a more expansive, powerful image.

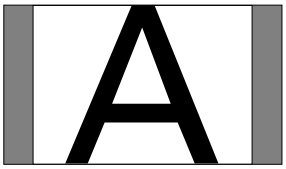
During personal computer signal input

① **DOT BY DOT**
The input signal and the screen maintain a dot to line ratio of 1:1 and is thus highly faithful to the source.
* The PDP-4300 is designed with horizontally oblong elements, with the result that the image displayed will appear more oblong than the original input signal.

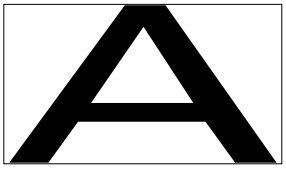


(Illustration shows 640 x 480 input.)

② **4:3**
The display fills the screen as much as possible without altering the aspect ratio of the input signal.



③ **FULL**
The display is presented with a widescreen aspect ratio of 16:9 and fills the entire screen.



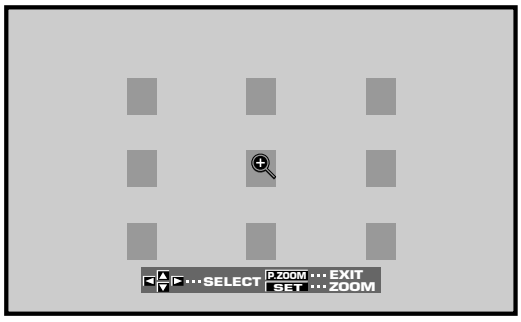
Partial Image Enlargement (POINT ZOOM)

This display allows any one of nine screen areas (AREA 1 to AREA 9) to be selected and enlarged to x1.5, x2, x3, or x4. When performing point zoom enlargement, the direction buttons (▲/▼/◄/►) can be used to move the enlarged portion up-down and right-left.

Notes

- The POINT ZOOM function is supported only when the input signal is from a computer.
- Whenever POINT ZOOM is selected, the screen size automatically changes to FULL.

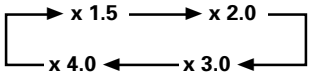
1 Press the remote control unit's POINT ZOOM.



2 Press ▲/▼/◄/► as required to select the desired screen area (AREA 1 to AREA 9).

3 Press SET to select the zoom ratio.

Pressing SET repeatedly changes the zoom ratio in the following order:

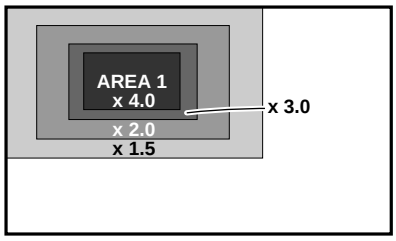


- When the zoom ratio is changed, the screen image is enlarged based on the screen center.
- ▲/▼/◄/► can be used to move the enlarged portion up-down and right-left.
- If no operation is undertaken for three seconds or more, the display screen will disappear. SET or ▲/▼/◄/► can be pressed again if desired to change the zoom ratio or display position.

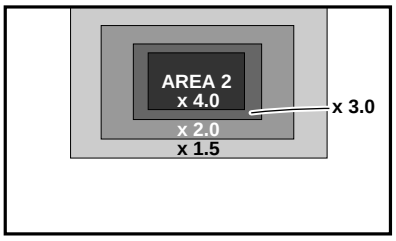
4 Press the remote control unit's POINT ZOOM once again to cancel the point zoom operation.

The point zoom function will also be canceled whenever the input signal changes, the menu screen is displayed, or the INPUT changes.

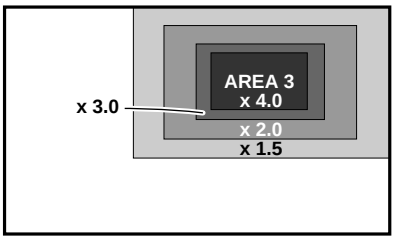
AREA 1 display range



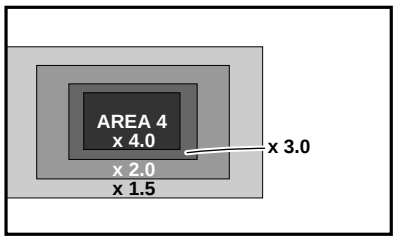
AREA 2 display range



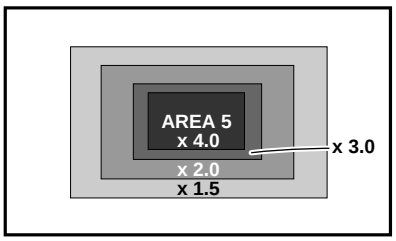
AREA 3 display range



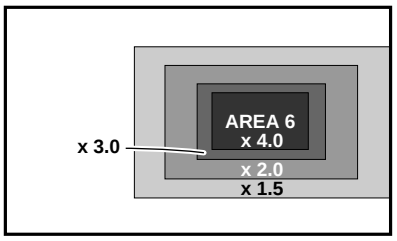
AREA 4 display range



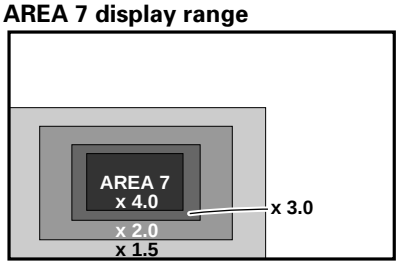
AREA 5 display range



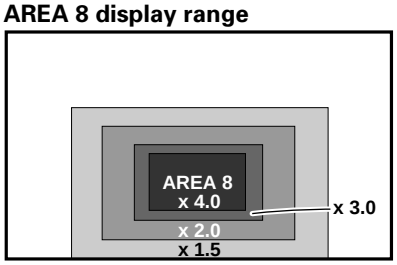
AREA 6 display range



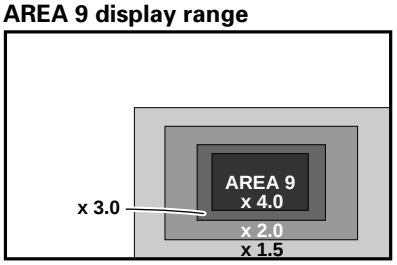
AREA 7 display range



AREA 8 display range



AREA 9 display range



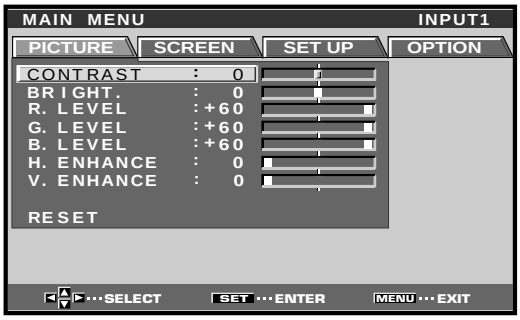
Automatic Power OFF

This display is equipped with automatic power-management and auto-power-off functions, which allow the unit to automatically switch to power-saving mode when no sync signal is detected.
(A warning message appears onscreen before these functions operate.)

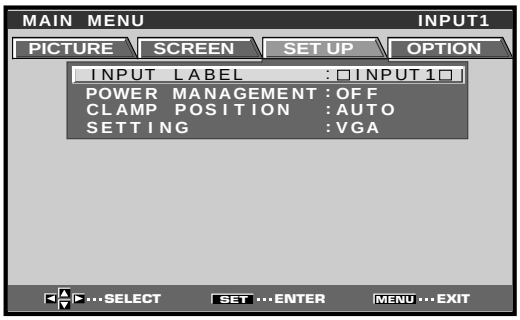
Notes

- Power Management settings are supported only when a computer signal is input to INPUT 1.
- The auto-power-off function can be used only in those cases other than the inputs used in the preceding item.
- Always turn off the plasma display's main power switch when not using the display for extended periods of time.

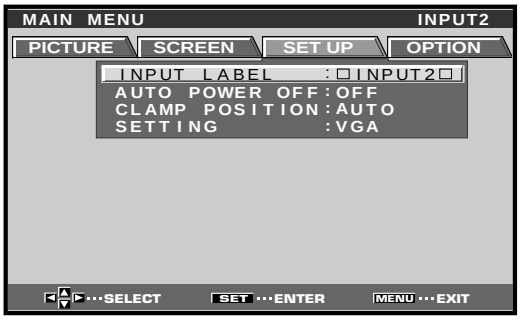
1 Press MENU to display the menu screen.



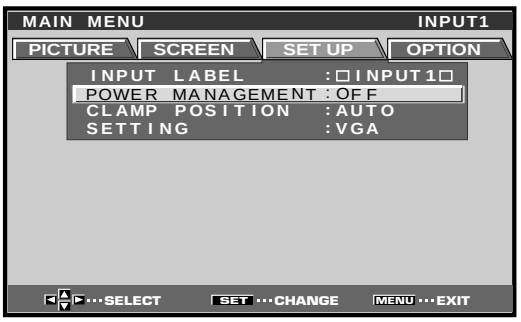
2 Press ◄/► to select SET UP.
[When computer signal is input to INPUT 1]



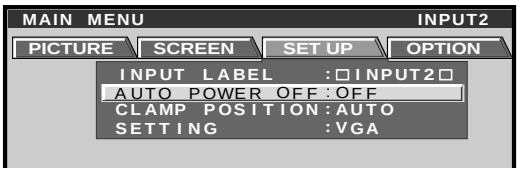
[In all other cases]



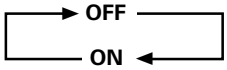
3 Press ▲/▼ to select either the POWER MANAGEMENT or AUTO POWER OFF mode.
[When computer signal is input to INPUT 1]



[In all other cases]



4 Press SET to confirm selection of the POWER MANAGEMENT or AUTO POWER OFF.



- When OFF is selected, the display will continue in operating mode, regardless of the presence/absence of an input sync signal.
- When **POWER MANAGEMENT: ON** is selected, if a sync signal is not detected, a warning message is displayed for 8 seconds, after which the display automatically enters the power-saving mode (*1) and the STANDBY/ON indicator flashes green. If a sync signal (*2) is input again later, the plasma display automatically returns to normal operating mode.
  *1. Power consumption about 1W
  *2. Except when input signal is G on SYNC or composite SYNC
- When **AUTO POWER OFF: ON** is selected, if no sync signal is detected for 8 minutes or more, a warning message will be displayed for 30 seconds, after which the unit's power will switch to STANDBY mode.

5 When the setup is finished, press MENU to exit the menu screen.

Note

The POWER MANAGEMENT and AUTO POWER OFF functions must be set individually for each input (INPUT 1–4).

To return to operating mode:

- **To return to normal operation from POWER MANAGEMENT mode:** either operate the computer, or press INPUT on the main unit operating panel or remote control unit.
- **To return to normal operation from AUTO POWER OFF mode:** Press STANDBY/ON on the main unit operating panel or remote control unit.

Adjusting the Picture Quality

Note

Make these adjustments for each input (INPUT1 to INPUT4) and signals.

PICTURE mode adjustment items

Below are brief descriptions of the options that can be set in the PICTURE mode.

[When video signal is input]

CONTRAST ····· Adjust according to the surrounding brightness so that the picture can be seen clearly.

BRIGHT. ····· Adjust so that the dark parts of the picture can be seen clearly.

COLOR ····· Adjust to the desired depth. (Setting to a slightly deep color will create a natural looking picture.)

TINT ····· Adjust so that flesh tones look normal.

SHARP ····· Normally set to the center position. To create a softer picture, set to the left of center. To create a sharper picture, set to the right of center.

[When computer signal is input to INPUT 1 or 2]

CONTRAST ····· Adjust according to the surrounding brightness so that the picture can be seen clearly.

BRIGHT. ····· Adjust so that the dark parts of the picture can be seen clearly.

R. LEVEL ····· Adjust the amount of red in the picture.

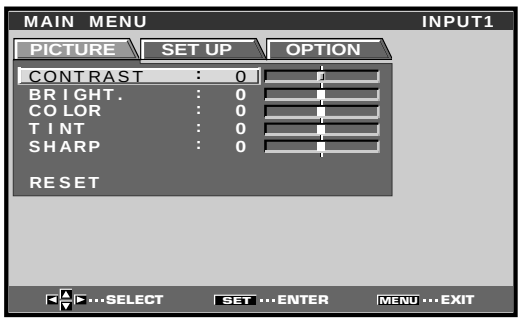
G. LEVEL ····· Adjust the amount of green in the picture.

B. LEVEL ····· Adjust the amount of blue in the picture.

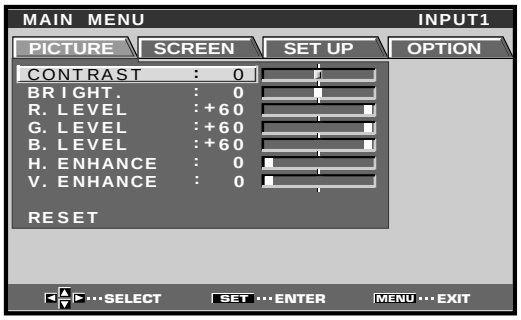
H. ENHANCE ····· Sharpens the image in the horizontal direction.

V. ENHANCE ····· Sharpens the image in the vertical direction.

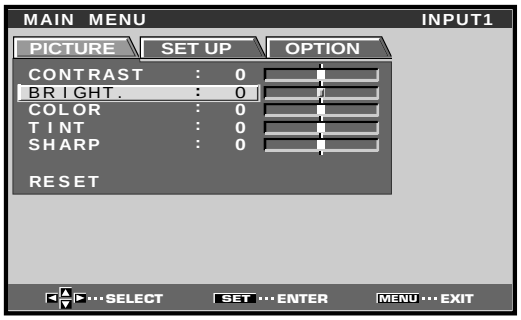
1 Press MENU to display the menu screen.



[When computer signal is input to INPUT 1 or 2]



2 Press ▲/▼ to select the adjustment item, then press SET.



3 Press ◄/► to adjust the picture quality as desired.

4 Press SET.

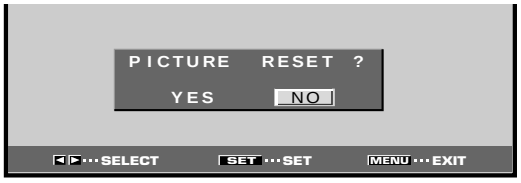
Pressing **SET** writes the value into the memory and returns the display to the step 2 screen.

5 When the setup is finished, press MENU to exit the menu screen.

To reset PICTURE mode settings to the default

If settings have been adjusted excessively or the picture on the screen no longer appears natural, it may prove more beneficial to reset the PICTURE mode to default settings instead of trying to make adjustments under already adjusted conditions.

1 In step 2 in the previous procedure, press ▲/▼ to select RESET, then press SET.



2 Press ◄/► to select YES, and press SET.

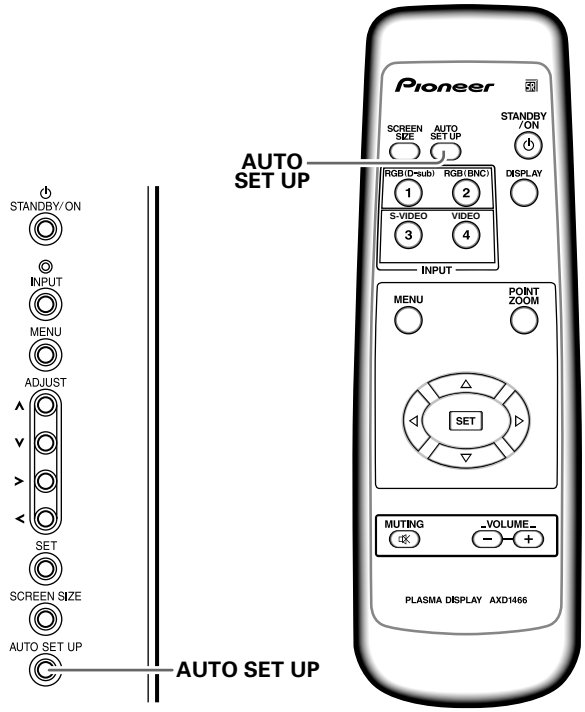
All PICTURE mode settings are returned to the factory set default.

Adjusting the Image Position and Clock (Automatic Adjustment)

Pressing AUTO SET UP on either the main unit operating panel or the remote control unit will adjust the screen position and clock to optimum values.

Notes

- This adjustment is supported only when a computer signal is input.
- Perform this adjustment individually for each input function (INPUT1 or INPUT2), and each signal type.



Main Unit Operating Panel

Remote Control Unit

Press AUTO SET UP on either the main unit operating panel or remote control unit.

- Optimum settings may not be possible for low-luminance and certain other kinds of signals. In this case, following the instructions in the following section "**Manual Adjustment of Screen Position and Clock**" to make more precise adjustments.

Manual Adjustment of Screen Position and Clock

This setting can be adjusted when a computer signal is input. (The settings on this page are not supported when a signal is input from a connected video component.)

Note

Make these adjustments for each input (INPUT1 to INPUT2) and signals.

SCREEN mode adjustment items

Below are brief descriptions of the options that can be set in the SCREEN mode.

POSITION

H.POSITION ····· Adjust the picture's position to the left or right.

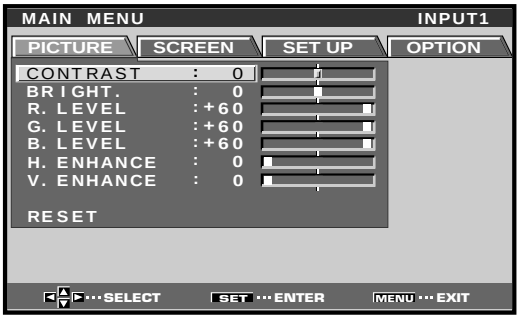
V.POSITION ····· Adjust the picture's position upward or downward.

CLOCK/PHASE

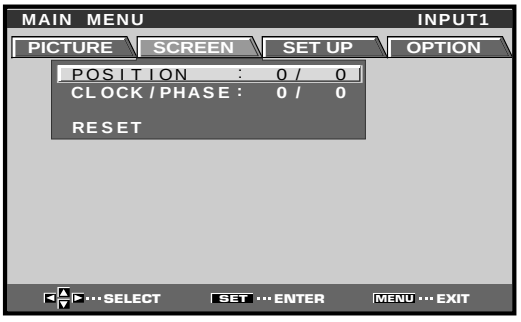
CLOCK. ····· Adjust letter breakup or noise on the screen. This setting adjusts the unit's internal clock signal frequency that corresponds to the input video signal.

PHASE ····· Adjust so that there is minimum flicker of screen letters or color misalignment. This setting adjusts the phase of the internal clock signal adjusted by the CLOCK setting.

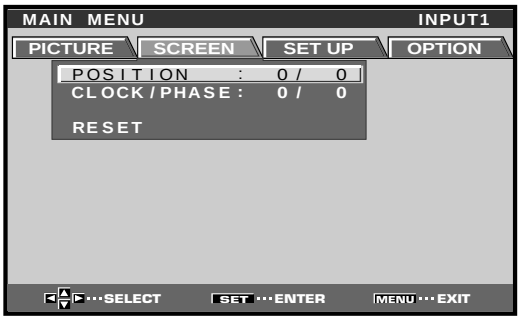
1 Press MENU to display the menu screen.



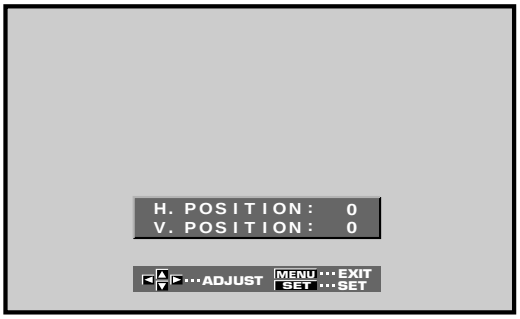
2 Press ◄/► to select SCREEN.



3 Press ▲/▼ to select the adjustment item, then press SET.



4 Press ◄/► to carry out the adjustment.



Use ▲/▼ for the adjustments of V.POSITION and PHASE.

5 Press SET.

Pressing **SET** writes the value into the memory and returns the display to the step 3 screen.

6 When adjustment is finished, press MENU to exit the menu screen.

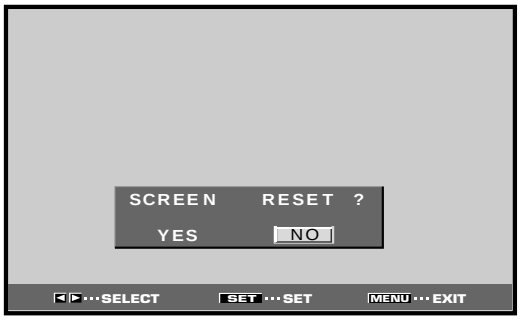
Notes

- When CLOCK adjustment is carried out, the H.POSITION setting may have to be re-adjusted.
- If the adjustment items in the SCREEN mode are adjusted excessively, the picture may not be displayed properly.

To reset SCREEN mode settings to the default

If settings have been adjusted excessively or the picture on the screen no longer appears natural, it may prove more beneficial to reset the SCREEN mode to default settings instead of trying to make adjustments under already adjusted conditions.

1 In step 3 in the previous procedure, press ▲/▼ to select RESET, then press SET.



2 Press ◄/► to select YES, and press SET.

All SCREEN mode settings are returned to the factory set default.

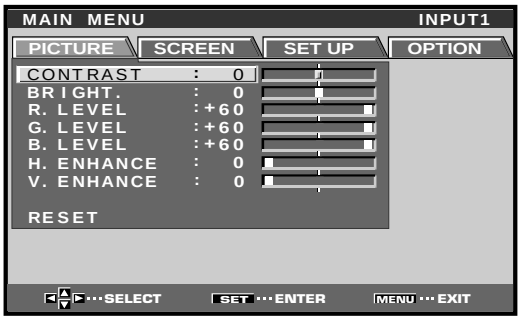
Rewriting the Input Display (INPUT LABEL)

This function allows rewriting of the screen contents displayed with differing inputs. For example, the default "INPUT 1" can be changed to "COMPUTER" or other name describing the connected component (up to maximum of 8 characters).

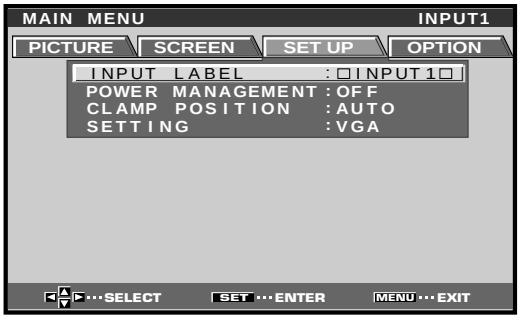
Example: To rewrite the default "INPUT 1" message to display "COMPUTER" instead.

1 **Press INPUT and set input to INPUT 1.**

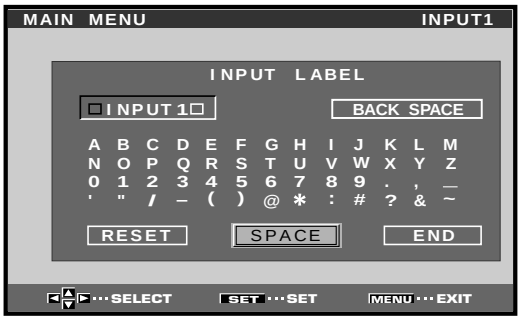
2 **Press MENU to display the menu screen.**



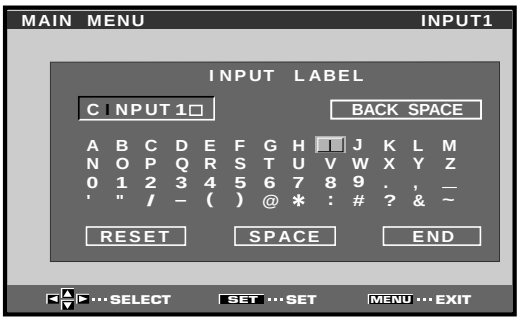
3 **Press ◄/► to select SET UP.**



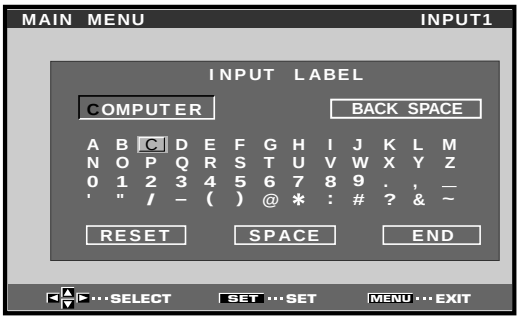
4 **Press SET to select INPUT LABEL.**


MAIN MENU
INPUT1
INPUT LABEL
□INPUT1□
BACK SPACE
A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z
0 1 2 3 4 5 6 7 8 9 . , _
' " / – ( ) @ * : # ? & ~
RESET
SPACE
END
SELECT
SET SET
MENU EXIT

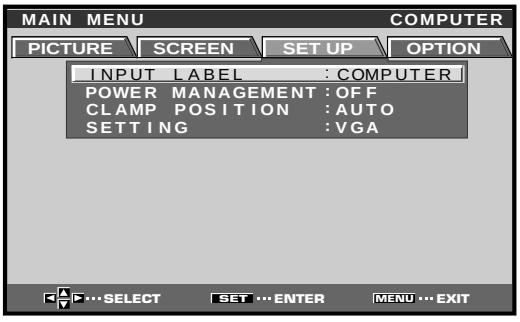
5 **Press ◄/►/▲/▼ to select the first desired character (here, "C"), then press SET to confirm (repeat this step to input up to eight desired characters.)**


MAIN MENU
INPUT1
INPUT LABEL
CINPUT1□
BACK SPACE
A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z
0 1 2 3 4 5 6 7 8 9 . , _
' " / – ( ) @ * : # ? & ~
RESET
SPACE
END
SELECT
SET SET
MENU EXIT

- Usable characters include 52 types displayable on screen.
- When a character is selected and SET pressed, the input point (cursor position) advances by one.
- If you input a mistaken character, press BACK SPACE followed by SET to move the input point (cursor position) back by one.
- To return the display to its default value, press RESET followed by SET.


MAIN MENU
INPUT1
INPUT LABEL
COMPUTER
BACK SPACE
A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z
0 1 2 3 4 5 6 7 8 9 . , _
' " / – ( ) @ * : # ? & ~
RESET
SPACE
END
SELECT
SET SET
MENU EXIT

6 **After setting all inputs as desired, press ◄/►/▲/▼ to select END, followed by SET.**



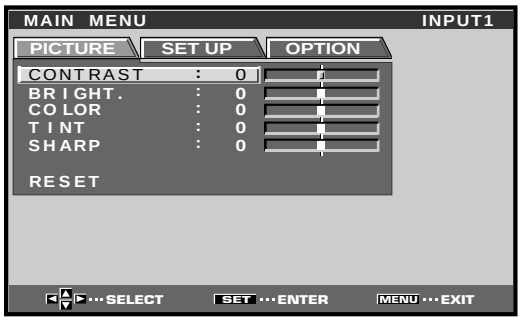
7 **Press MENU to return to the normal display screen.**

Changing the Color Temperature (COLOR TEMP)

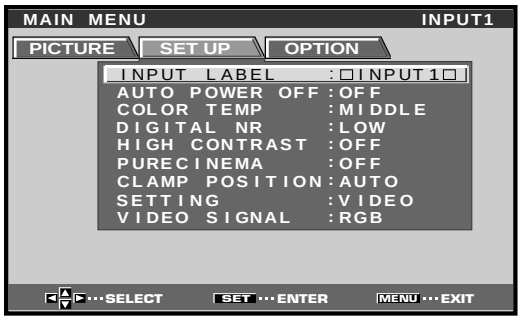
Note

Color temperature settings are supported only with input signals from a video device. Settings are made individually for each of the inputs (INPUT1 – INPUT4).

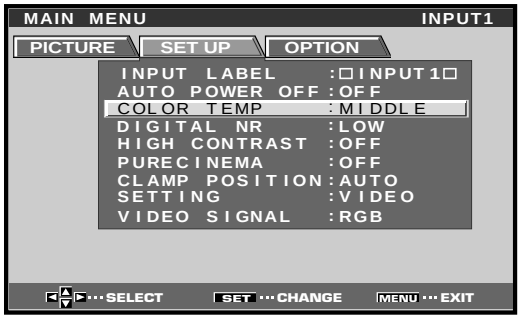
1 Press MENU to display the menu screen.



2 Press ◄/► to select SET UP.

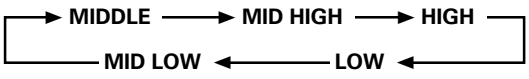


3 Press ▲/▼ to select COLOR TEMP.



4 Press SET to select the desired color temperature setting.

The unit has been factory set at the MIDDLE setting. Each time **SET** is pressed, the color temperature setting changes as shown:



5 Following completion of the setting, press MENU once again to return to the normal display.

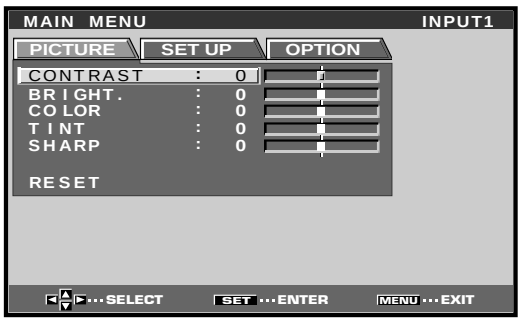
Reducing Video Noise (DIGITAL NR)

Make this setting if video noise is objectionable.

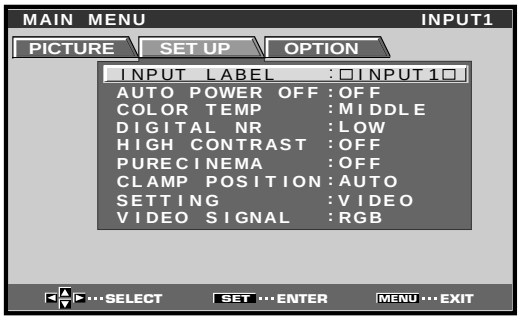
Note

Digital noise reduction settings are supported only with input signals from a video device. Settings are made individually for each of the inputs (INPUT1 – INPUT4).

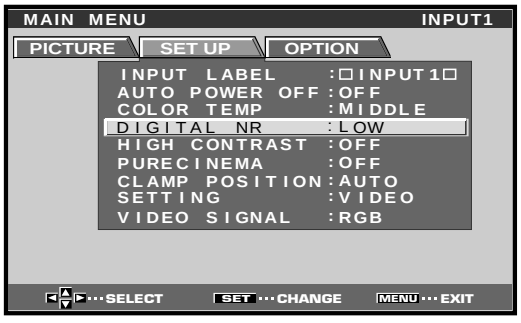
1 Press MENU to display the menu screen.



2 Press ◄/► to select SET UP.

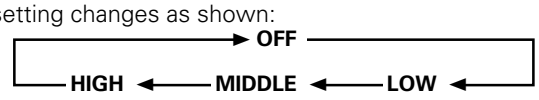


3 Press ▲/▼ to select DIGITAL NR.



4 Press SET to select the desired DIGITAL NR setting.

The unit has been factory set to the LOW setting. Each time **SET** is pressed, the digital noise reduction setting changes as shown:



- The noise reduction effect increases in order LOW → MIDDLE → HIGH

5 Following completion of the setting, press MENU once again to return to the normal display.

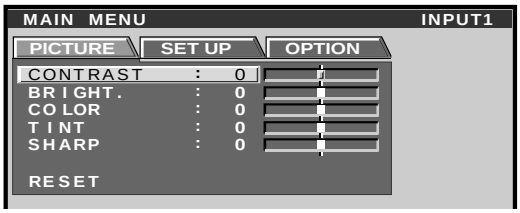
Setting the PureCinema mode

When the PureCinema mode is selected, it functions automatically to detect video signals of movies recorded at 24 frames-per-second, changing the scan settings to allow enjoyment of higher quality movie playback. It does this by converting the video signal to progressive scan. When using the PureCinema function, it should odinarily be set to "HQ." Note, however, that due to the time required for video signal processing, a time lag may occur with the audio signal, and if this lag is objectionable, set the mode to "STANDARD." When set to OFF, only standard progressive conversion is used.

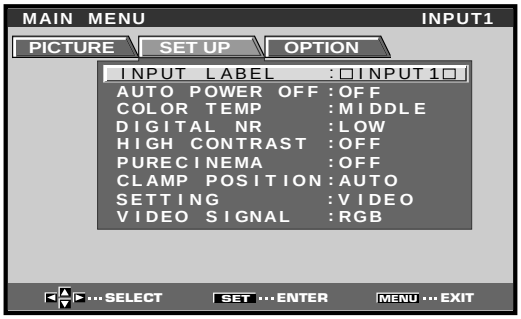
Note

The PureCinema mode is supported only with 480i or NTSC input signals. This setting must be made independently for each input (INPUT 1 – INPUT 4) used.

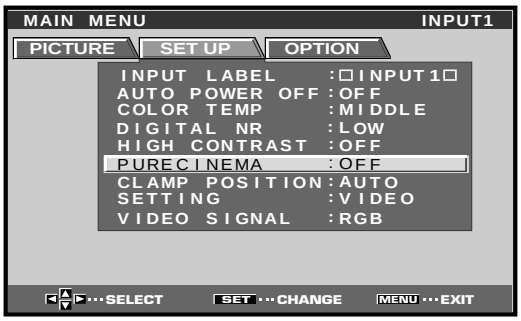
1 Press MENU to display the menu screen.



2 Press ◄/► to select SET UP.



3 Press ▲/▼ to select PURECINEMA.



4 Press SET to select the desired PureCinema mode.

Each time **SET** is pressed, the screen mode setting changes as shown:

OFF → STANDARD → HQ

5 Following completion of the setting, press MENU once again to return to the normal display.

Viewing a Fast Moving Picture (3D Y/C MODE)

When viewing a fast moving picture such as might be experienced with a sports program, setting this mode to "MOTION" will reduce picture blur and create a clearer image.

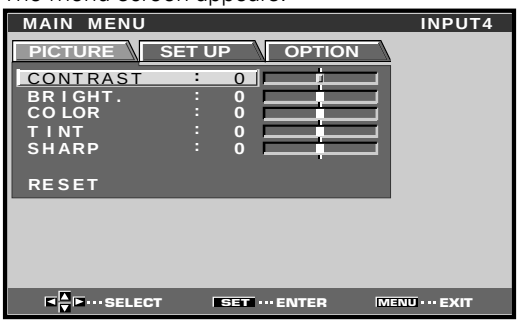
- Set this mode to "STILL" when not viewing a fast moving picture.

Note

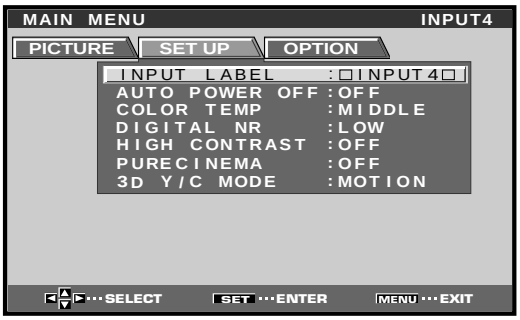
3D Y/C MODE setting is possible only when INPUT4 is selected.

1 Press MENU to display the menu screen.

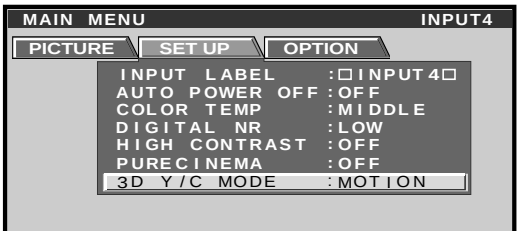
The menu screen appears.



2 Press ◄/► to select SET UP.



3 Press ▲/▼ to select 3D Y/C MODE.



4 Press SET to set the mode to "MOTION".

"MOTION" is set when this unit is shipped from the factory.

Each time **SET** is pressed, the settings change in the following order.

STILL → MOTION →

5 When the setup is finished, press MENU to exit the menu screen.

Viewing in a Bright Location (HIGH CONTRAST)

When viewing a picture in a bright location, setting this mode to "ON" will enable you to obtain a clear video image.

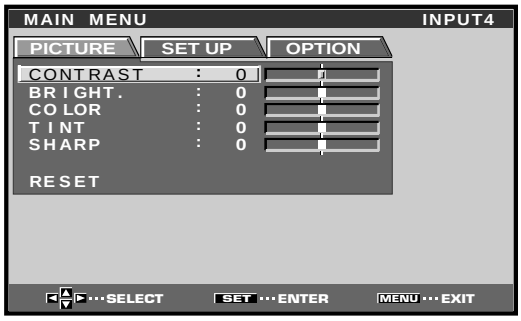
- Set this mode to "OFF" when not viewing in a bright location.

Note

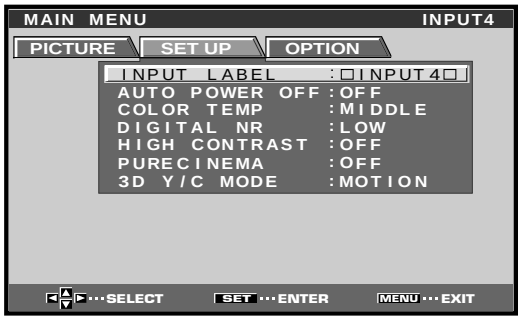
The HIGH CONTRAST setting is supported only when selecting a video input signal from a connected video component. This setting must be made independently for each input (INPUT 1 – INPUT 4) used.

1 Press MENU to display the menu screen.

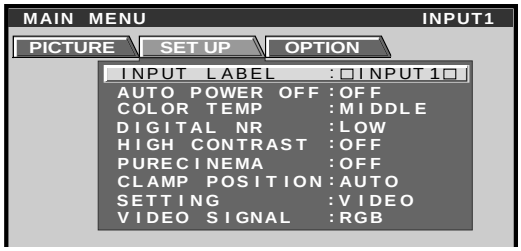
The menu screen appears.



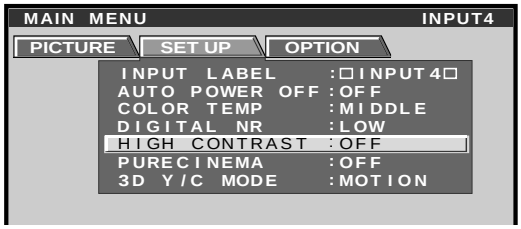
2 Press ◄/► to select SET UP.



When viewing an image from INPUT1 or INPUT2, the following screen is displayed.



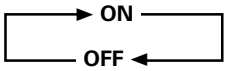
3 Press ▲/▼ to select HIGH CONTRAST.



4 Press SET to set the mode to "ON".

"OFF" is set when this unit is shipped from the factory.

Each time **SET** is pressed, the settings change in the following order.



5 When the setup is finished, press MENU to exit the menu screen.

Power Control Function

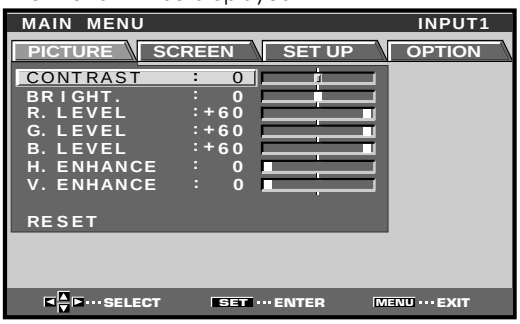
The power control function allows screen brightness to be suppressed as a means of lowering power consumption and reducing display deterioration.

Note

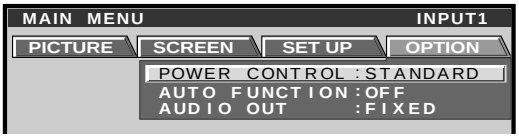
The POWER CONTROL setting affects all input sources.

1 Press MENU to display the menu screen.

The menu will be displayed.



2 Press ◄/► to select OPTION.



3 Press SET to select POWER CONTROL.

The unit has been factory set to the STANDARD setting. Each time SET is pressed, the setting changes as follows:

- When STANDARD is set, screen brightness is reduced in accordance with the input signal, thus producing bright, easy-to-view images.
- Selecting MODE 1 reduces brightness in the same way as the STANDARD setting, but at a even lower levels of power consumption.
- MODE 2 fixes the screen brightness regardless of the input signal. This is effective at reducing panel deterioration due to screen burning.

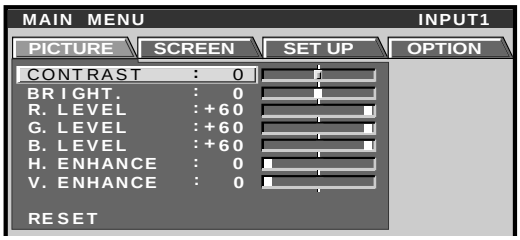
4 Following completion of settings, press MENU to return to normal screen display.

AUTO FUNCTION

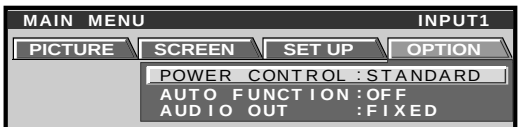
This display is equipped with an optional AUTO FUNCTION selector. When enabled, the selector automatically switches the display's input source to INPUT 1 or INPUT 4 when an image signal is detected at the INPUT 1 jack or the INPUT 4 jack.

1 Press MENU;

The onscreen menu will be displayed.



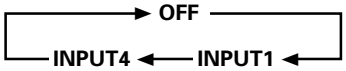
2 Press ◄/► to select OPTION.



3 Press ▲/▼ to select AUTO FUNCTION.

4 Press SET to select INPUT 1 or INPUT 4.

The factory default setting is OFF. Each time SET is pressed the selector function switches alternately as shown:



- When OFF is selected, AUTO FUNCTION is disabled.
- When INPUT 1 or INPUT 4 is selected, the display input automatically switches to the selected input jack when a signal is detected at the selected jack. Thereafter, the input will not change even if the INPUT button is pressed on the remote control unit or main unit operation panel. (In this case, "AUTO" will be displayed on the screen.)
  Once the function has switched to the selected input by operation of the AUTO FUNCTION facility, if the input signal is no longer detected at the selected input jack, the function will automatically switch back to the original input source used before the AUTO FUNCTION facility was enabled.

5 Following completion of settings, press MENU again to return the display to its normal screen.

Note

The AUTO FUNCTION for INPUT1 is supported only when a separate SYNC or composite SYNC analog RGB signal is input. (When a G on SYNC or component video signal is input, AUTO FUNCTION is disable.)

Audio Output (AUDIO OUT)

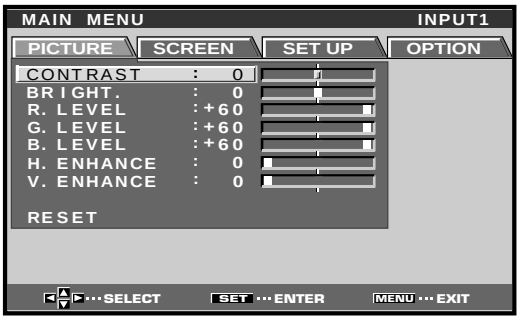
The signal level produced at the AUDIO OUT terminal can be set to FIXED or VARIABLE (linked to the VOLUME) as desired.

Note

The AUDIO OUT setting affects all input sources (INPUT1– 4).

1 Press MENU;

The onscreen menu will be displayed.



2 Press ◄/► to select OPTION.

3 Press ▲/▼ to select AUDIO OUT.

4 Press SET to select the desired audio level setting.

The factory default setting is FIXED. Each time SET is pressed, the function alternates as shown:

- When FIXED is selected, the audio output volume will not change, even if the setting of the display's VOLUME function is later changed.
- When VARIABLE is selected, the level of the output signal changes in accordance with the setting of the VOLUME function.

5 Following completion of settings, press MENU to return to normal screen display.

Cleaning

Regular cleaning will extend the life and performance of this unit. The recommended way to clean the display and related parts is described below.

Before cleaning, be sure to unplug the power cord from the power outlet.

Cleaning the display panel body and remote control

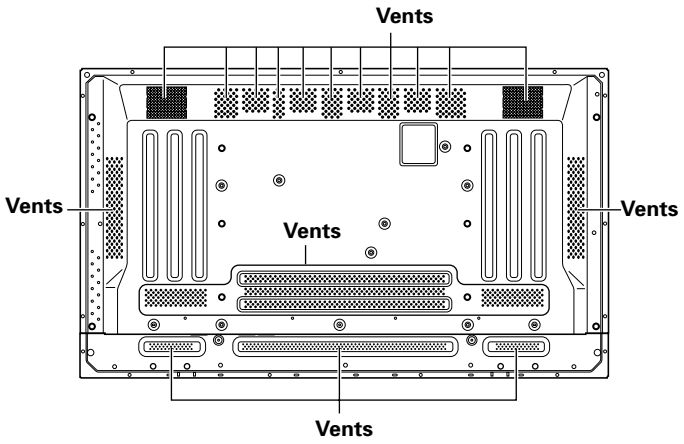
Do not under any circumstances use solvents such as benzine or thinner for cleaner. Use of such liquids may cause deterioration or peeling of paint from the display or remote control unit.
Wipe the display and remote control gently with a soft cloth. In the case of excessive dirt buildup, dampen a soft cloth with a diluted neutral cleaning detergent and after wringing the cloth thoroughly, wipe the component and then dry it with a dry soft cloth.

Cleaning the screen

After dusting, wipe the screen gently using the supplied cleaning cloth or a soft cloth. Do not use tissue or a rough cloth. As the surface of the screen is easily scratched, do not rub it or hit it with a hard object.

Cleaning the vents

As a general rule, use a vacuum cleaner about once a month to clean the vents on the rear panel of the display of dust buildup (set the vacuum cleaner to its weakest setting when doing this).
Using the unit without cleaning it of dust will cause the internal temperature to increase, resulting in possible breakdown or fire.



Troubleshooting

What may at first seem to be a malfunction, may be remedied with a quick check.
Please check to see if a warning is displayed on the screen. If displayed, refer to the table below and check the mode. If there is no display check to see if the problem is listed on page 34. The problem may also be caused by something other than this unit so please also check the other components being used such as a video deck. If the problem can still not be solved please consult the dealer where this unit was purchased.

About the self diagnosis mode

Messages appear on the bottom of this unit's screen to indicate operation or connection faults. After message confirmation, check the condition of the unit.

ERROR MESSAGE	REMEDY
CAUTION OUT OF RANGE or CAUTION UNSUPPORTED SIGNAL	● The current input signal is not supported by the unit. Consult the table of supported computer input signals on page 37 and set the computer's output signal appropriately.
WARNING THERMAL ALERT	● Turn off main power (page 7). ● Is ambient temperature too high? ● Remove any objects blocking the cooling vents on the plasma display.
WARNING FAN FAILURE	● Cooling fan has malfunctioned. Immediately turn off power, remove power plug from its outlet, and consult a Pioneer service center or your dealer.
ERROR INVALID KEY ENTRY	● An invalid operation has been attempted. (For example, when a video signal is input, POINT ZOOM button is pressed.) Check input signals, connections and other settings.
SHUT DOWN	● Turn off main power, wait for 1-2 minutes, then try turning power on again. If problem persists, remove power plug from its outlet and consult a Pioneer service center or your dealer.

General problems

Problem	Possible Solution
• No power	• Is the power cord disconnected? (page 16) • Has the main power switch been switched on? (page 7)
• Unit cannot be operated.	• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the main power switch on/off, or unplugging the power cord and re-plugging it in after 1 to 2 minutes.
• Remote control does not operate.	• Are batteries inserted with polarity (+, –) correctly aligned? (page 5) • Are batteries worn out? (Replace with new batteries). • Is a plug connected to the CONTROL IN connector? When a plug is connected to the CONTROL IN connector, the signal from that connector is given priority, thus disabling the remote control signal receiver (page 15).
• INPUT is not changed.	• Is the Auto function being used? (page 32)
• Picture is cut off.	• Is the selected screen size correct? Switch to another screen size (page 22). • Are SCREEN mode adjustments such as picture size made correctly? (pages 26–27). • Is the Point Zoom function being used? (page 23)
• Strange color, light color, or dark, or color misalignment	• Adjust the picture tone (page 25). • Is the room too bright? The picture may look dark in a room that is too bright. • Is CLAMP POSITION setup correct? (page 19)
• Power is suddenly turned off.	• The unit's internal temperature has increased. (Air vents are blocked.) Remove any objects blocking vent or clean (page 33). • Is the POWER MANAGEMENT or AUTO POWER OFF function set to ON? (page 24). • Condensation has formed on internal parts due to suddenly increasing ambient temperature. Allow condensation to dry thoroughly before using.
• No picture	• Is connection to other components correct? (pages 9 to 15) • Has setup been done correctly after connection? (pages 18 and 19) • Is the correct input selected? (page 20) • Is a non-compatible signal being input? (pages 9, 37 and 38) • Is picture adjustment correct? (page 25)

Problems commonly mistaken as breakdown

Problem	Possible Solution
• The screen is displayed in a small size.	• Check the input signal compatibility chart (pages 37–38). • Is the correct screen size selected? (pages 22, 26 and 27)
• Letter breakup on screen.	• Adjust using "SCREEN" mode on the menu screen (pages 26, 27). If there is still no improvement, this unit may be limiting the displayable range. Check the personal computer input signal compatibility chart (pages 37–38).
• A sharp sound is sometimes heard from the cabinet.	• Expansion/contraction caused by surrounding temperature change may result in sound being heard from the cabinet. This is not a malfunction.
• Bright portions of image appear to be losing intensity.	• When the video input signal's level is too high, the bright portions may appear to be losing their intensity. Increase the adjustment level of the contrast and check the picture (page 25).
• Speckles or noise appears on screen.	• May be caused by radio wave interference from appliances with motors such as hair dryers, electric vacuum cleaners, electric power drills, ignition systems of cars, motorcycles etc., switch devises such as thermostats etc., neon signs or electrical discharge from power lines etc..
• Stripes appear on the screen.	• May be caused by radio wave mingling from TV station, FM station, amateur radios, public radios (simplified radios) etc., or a nearby personal computer, TV, or video/audio component. • A strong electromagnetic field may cause picture distortion and similar problems.
• Sound is heard from inside the unit.	• Normal sound of the cooling fan and internal sliding parts of the plasma display panel. Not a malfunction.
• Fan isn't moving	• Fan is set to operate only after ambient temperature exceeds 35 °C (95 °F)(differs depending on installation conditions). Not a malfunction.
• Fan speed changes.	• Fan speed changes automatically in accordance with ambient conditions. Not a malfunction.

Although this unit incorporates high precision technology in its design, please understand that there may be extremely slight pixel breakup, or light emission fault.

Note

In order to protect the panel and internal circuitry, this display is provided with a cooling fan designed to turn on/off and change speed automatically in accordance with ambient temperature conditions (the fan sound will change in accordance with its speed).

Additional cautions

- If the power is automatically turned off during operation of this unit, the following reasons may be the cause.
  ① Is the POWER MANAGEMENT or AUTO POWER OFF function set to ON? (page 24).
  ② Is ambient temperature too high?
  ③ The internal temperature has risen abnormally due to blocked cooling vents, overheating of internal electronic parts, or other factors.
  ④ If the display is moved suddenly from a chilled location to a warm room, or if the room temperature rises suddenly, condensation may form on internal parts. To protect internal circuitry, the display is provided with a condensation detector that automatically disables power in event of internal condensation; in this case, allow the unit to dry thoroughly before using.

  If the power is automatically turned off for a reason other than the above reasons, there could be a malfunction. In this case, unplug the power cord from the power outlet and request repair from your nearest sales outlet.
- The plasma display panel of this unit is very bright and viewing it a close distance will cause eye strain. We recommend that you view the screen from a suitable distance (9.8 to 19.7 feet (3 to 6m)).

STANDBY/ON indicator

During operation of the Power Management function, the indicator will flash green at intervals of about 2 seconds (page 24). If the green light displays a flashing pattern other than the above, an error message is indicated. Consult any onscreen messages (page 33) and check ambient conditions (temperature, condensation, etc.) and respond accordingly (pages 34 – 35).
If the problem persists, disconnect the power plug and consult your dealer or a service center.
When STANDBY/ON is pressed to set the unit to the standby mode, the indicator will flash red for several seconds (page 20). Other than this, if the power turns off by itself, or refuses to turn on, or if the red indicator conditions flashing, a malfunction may be indicated. Immediately disconnect the power plug and consult your dealer or a service center.

About the plasma panel's protection function

The brightness of this display will deteriorate slightly when an image with little movement such as a photograph or computer image is continuously displayed. This is caused by the plasma panel's protection function which detects images with slight movement and automatically adjusts brightness to protect the display, and is not a malfunction.
The screen-saver function begins operating when the display detects no or little screen movement for a period of about three minutes.

CAUTION
Panel sticking and after-image lag

- Displaying the same images such as still images for a long time may cause after-image lagging. This may occur in the following two cases.

1. After-image lagging due to remaining electrical load
   When image patterns with very high peak luminance are displayed for more than 1 minute, after-image lagging may occur due to the remaining electric load. The after-images remaining on the screen will disappear when moving images are displayed. The time for the after-images to disappear depends on the luminance of the still images and the time they had been displayed.

2. After-image (lag image) due to burning
   Avoid displaying the same image on the Plasma Display continuously over a long period of time. If the same image is displayed continuously for several hours, or for shorter periods of time over several days, a permanent after-image may remain on the screen due to burning of the fluorescent materials. Such images may become less noticeable if moving images are later displayed, but they will not disappear completely.

- The power control function can be set to help prevent damage from screen burning (page 31).

Specifications

Light emission panel ..... 43 inch plasma display panel
Number of pixels ..... 1024 x 768
Power supply ..... AC 120 V, 60 Hz
Rated current ..... 2.5 A
Standby power consumption ..... 0.9 W
External dimensions ..... 1070 (W) x 630 (H) x 98 (D) mm
..... 42-1/8 (W) x 24-13/16 (H) x 3-7/8 (D) in.
Weight ..... 33.0 kg (72 lbs. 13 oz)

Input/output

Video

INPUT 1

(Input) Mini D-sub 15 pin (socket connector)
① RGB signal (G ON SYNC compatible)
RGB ... 0.7 Vp-p/75 Ω/no sync.
HD/CS, VD ... TTL level
/positive and negative polarity
/2.2 kΩ
G ON SYNC
... 1 Vp-p/75 Ω/negative sync.
*Compatible with Microsoft's Plug & Play (VESA DDC1/2B)

② Component video signal
Y ... 1 Vp-p/75 Ω/negative sync.
C_B/P_B, C_R/P_R
... 0.525 Vp-p/75 Ω
(75% satulation level)

(Output) Mini D-sub 15 pin (socket connector)
75 Ω/with buffer

INPUT 2

(Input) BNC jack (x5)
① RGB signal (G ON SYNC compatible)
RGB ... 0.7 Vp-p/75 Ω/no sync.
HD/CS, VD ... TTL level
/positive and negative polarity/
75 Ω or 2.2 kΩ
(impedance switch)
G ON SYNC ...
1 Vp-p/75 Ω/negative sync.

② Component video signal
Y ... 1 Vp-p/75 Ω/negative sync.
C_B/P_B, C_R/P_R
... 0.525 Vp-p/75 Ω
(75% satulation level)

INPUT 3

(Input) S terminal (Mini DIN 4 pin)
• Y/C saparate video signal (NTSC)
Y . . . 1 Vp-p/75 Ω/negative sync.
C . . . 0.286 Vp-p/75 Ω

INPUT 4

(Input) BNC jack
• Composite video signal (NTSC)
1 Vp-p/75 Ω/negative sync.

(Output) BNC jack
75 Ω /with buffer

Audio

(Input) AUDIO INPUT (for INPUT 1/2)
Stereo mini jack
L/R ... 500mVrms/more than 10 kΩ

AUDIO INPUT (for INPUT 3)
Pin jack (x2)
L/R ... 500mVrms/more than 10 kΩ

AUDIO INPUT (for INPUT 4)
Pin jack (x2)
L/R ... 500mVrms/more than 10 kΩ

(Output) AUDIO OUTPUT
Stereo mini jack
L/R ... 500mVrms (max)/less than 5 kΩ

SPEAKER
L/R ... 8 – 16 Ω/2W +2W (at 8 Ω)

Control

RS-232C ... D-sub 9 pin (pin connector)
COMBINATION IN/OUT
... Mini DIN 6 pin (x2)
CONTROL IN/OUT ... monaural mini jack (x2)

Accessories

Power cord 1
Remote control unit 1
AA (R6) batteries 2
Cleaning cloth 1
Speed clamps 2
Bead bands 2
Warranty 1
Operating Instructions 1

- Due to improvements, specifications and design are subject to change without notice.

Supplement 1

PC signal compatibilty table (INPUT1, INPUT2)

: Not available.

Resolution (Dot x Line)	Refresh rate		Screen size (Dot x line)			Remarks
	Vertical	Horizontal	DOT BY DOT	4:3	FULL	
640x400	56.4Hz	24.8kHz			○ 1024x768	NEC PC-9800
	70.1Hz	31.5kHz			↑	NEC PC-9800
640x480	60Hz	31.5kHz	◎ 640x480	○ 768x768	○ 1024x768	(852x480) (864x480)
	66.7Hz	35.0kHz	↑	↑	↑	Apple Macintosh 13"
	72.8Hz	37.9kHz	↑	↑	↑	
	75Hz	37.5kHz	↑	↑	↑	
	85Hz	43.3kHz	↑	↑	↑	
800 x600	56Hz	35.2kHz	◎ 800x600	△ 768x768	○ 1024x768	
	60Hz	37.9kHz	↑	↑	↑	(1072x600)
	72Hz	48.1kHz	↑	↑	↑	
	75Hz	46.9kHz	↑	↑	↑	
	85Hz	53.7kHz	↑	↑	↑	
832x624	74.6Hz	49.7kHz	◎ 832x624	△ 768x768	○ 1024x768	Apple Macintosh 16"
852x480	60Hz	31.7kHz	◎ 852x480		○ 1024x768	
1024x768	60Hz	48.4kHz	◎ 1024x768	△ 768x768		(1376x768)
	70Hz	56.5kHz	↑	↑		
	75Hz (74.9Hz)	60.0kHz (60.2kHz)	↑	↑		( ) indicates Apple Macintosh 19"
	85Hz	68.7kHz	↑	↑		
1280x768	56Hz	45.1kHz			△ 1024x768	
	60Hz	48.4kHz			↑	
	70Hz	56.1kHz			↑	

◎ : Input signal and screen's dot x line ratio are made to display at 1:1 ratio.

Note: The PDP-4300 is designed with horizontally oblong elements, with the result that the image displayed will appear more oblong than the original input signal.

○ : Picture will be enlarged but some fine detail will be hard to see.

△ : Simple reproduction. Fine detail will not be reproduced. Screen size will be displayed as "~ (TYPE)".

Supplement 2

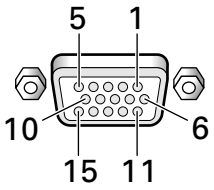
Video signal compatibilty table (INPUT1, INPUT2)

Refresh rate		Signal format	Screen size				Remarks
Vertical F_V (Hz)	Horizontal F_H (kHz)		4:3	FULL	ZOOM	WIDE	
50	15.625	Component	○	○	○	○	575i / SDTV
		RGB	○	○	○	○	
	28.1	Component		○			1080i / HDTV
		RGB		○			
	31.25	Component	○	○	○	○	575p / SDTV
		RGB	○	○	○	○	
60	15.734	Component	○	○	○	○	480i / SDTV
		RGB	○	○	○	○	
	31.5	Component	○	○	○	○	480p / SDTV
		RGB	○	○	○	○	
	33.75	Component		○			1080i / HDTV
		RGB		○			
	45.0	Component		○			720p / HDTV
		RGB		○			
	67.5	Component		○			1080p / HDTV
		RGB		○			

: **Not available.**

Supplement 3

Signal assignment of INPUT 1 (Mini D-sub 15 pin socket connector)



Pin No.	Input	Output
1	R or C_R/P_R	←
2	G or Y	←
3	B or C_B/P_B	←
4	NC (No connection)	←
5	GND	←
6	GND	←
7	GND	←
8	GND	←
9	DDC + 5V	NC (No connection)
10	GND	←
11	NC (No connection)	←
12	DDC SDA	NC (No connection)
13	HD or H/V SYNC	←
14	VD	←
15	DDC SCL	NC (No connection)

Explanation of Terms

Aspect ratio
The TV screen's width to height ratio is referred to as its aspect ratio. The aspect ratio on standard TVs is 4:3 and on wide TVs or High Definition TVs it is 16:9.

S jack (S VIDEO jack)
This jack separates and transmits the video signal as two signals; the luminance (Y) signal and the color(C) signal. Because of this, picture reproduction is superior to that obtained at the composite input/output jacks.

S-video signal
The video signal is composed of two signals; the chroma signal (color signal) which reproduces color and the luminance signal which reproduces light and darkness. With standard video components, these two signals are combined into one and are handled as a video signal referred to as the "composite signal". The S-video signal, however, is a signal that handles these two signals separately. Because they are not combined as in the composite video signal, the high quality of both signals can be retained.

Component video signal
General term for video signal format composed of the $Y.C_B.C_R$, $Y.P_B.P_R$ and Y.B-Y.R-Y luminance signal + color signal.
The component video signal is sometimes simply called the "color difference signal".

G ON SYNC
This indicates a video signal in the form of a synchronization signal added to the G (GREEN) signal of the R.G.B signal.

VGA
VGA is short for "Video Graphics Array".
Generally this indicates a 640 dot x 480 line resolution.

XGA
General term for "eXtended Graphics Array".
Generally this indicates a 1024 dot x 768 line resolution.

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